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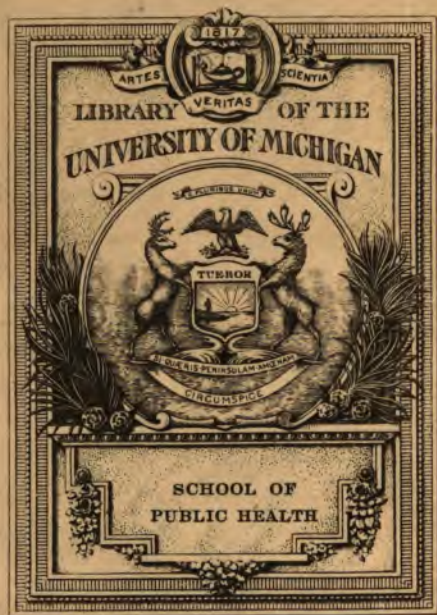
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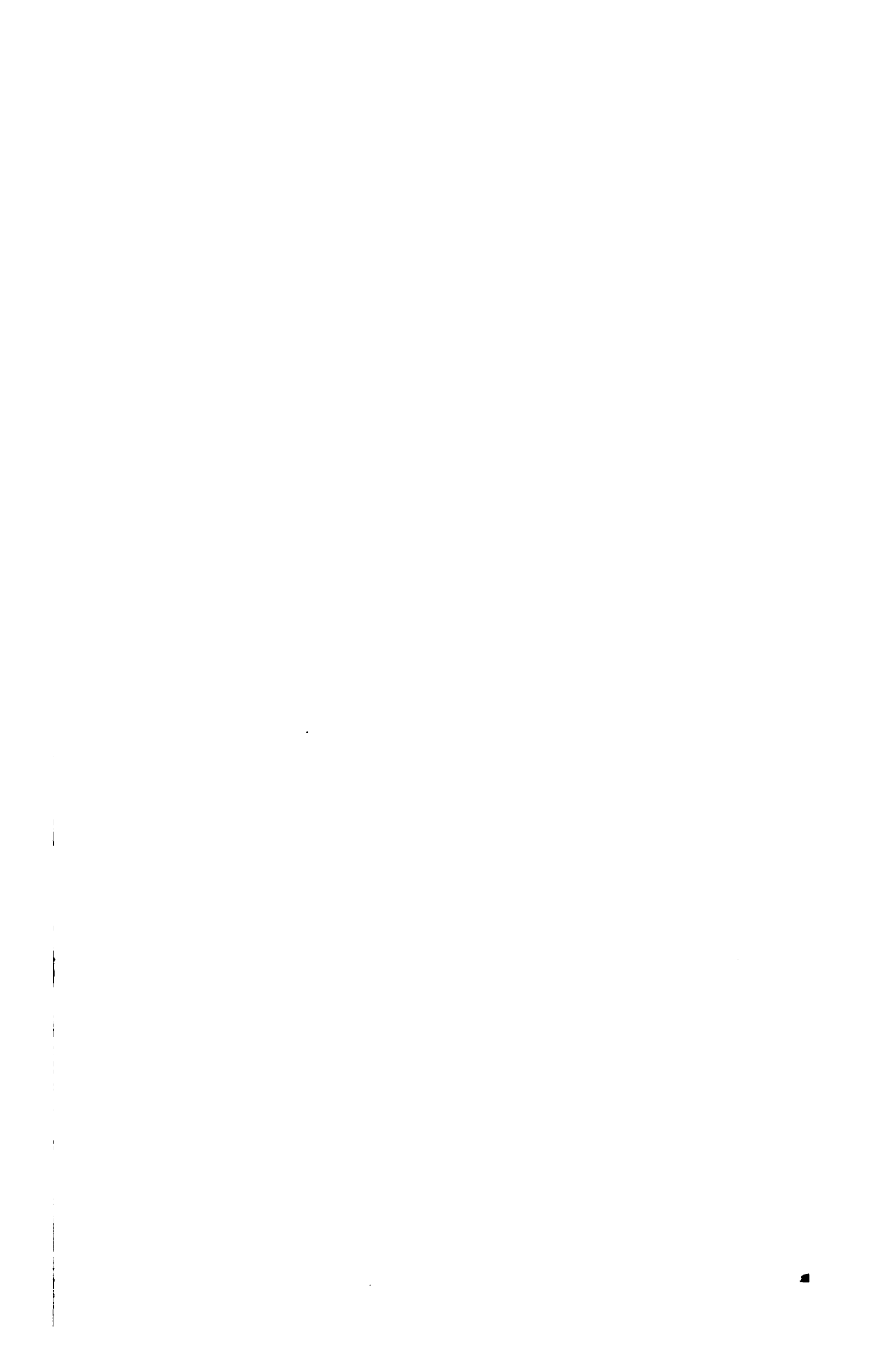
THE GIFT OF
DR. HENRY F. VAUGHAN

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Mich. Dept. of Health.

FIRST ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

TO THE REGISTRY AND RETURN OF

BIRTHS AND DEATHS,

Compliments of

HENRY B. BAKER, M. D.,

dated April 5th, 1868.

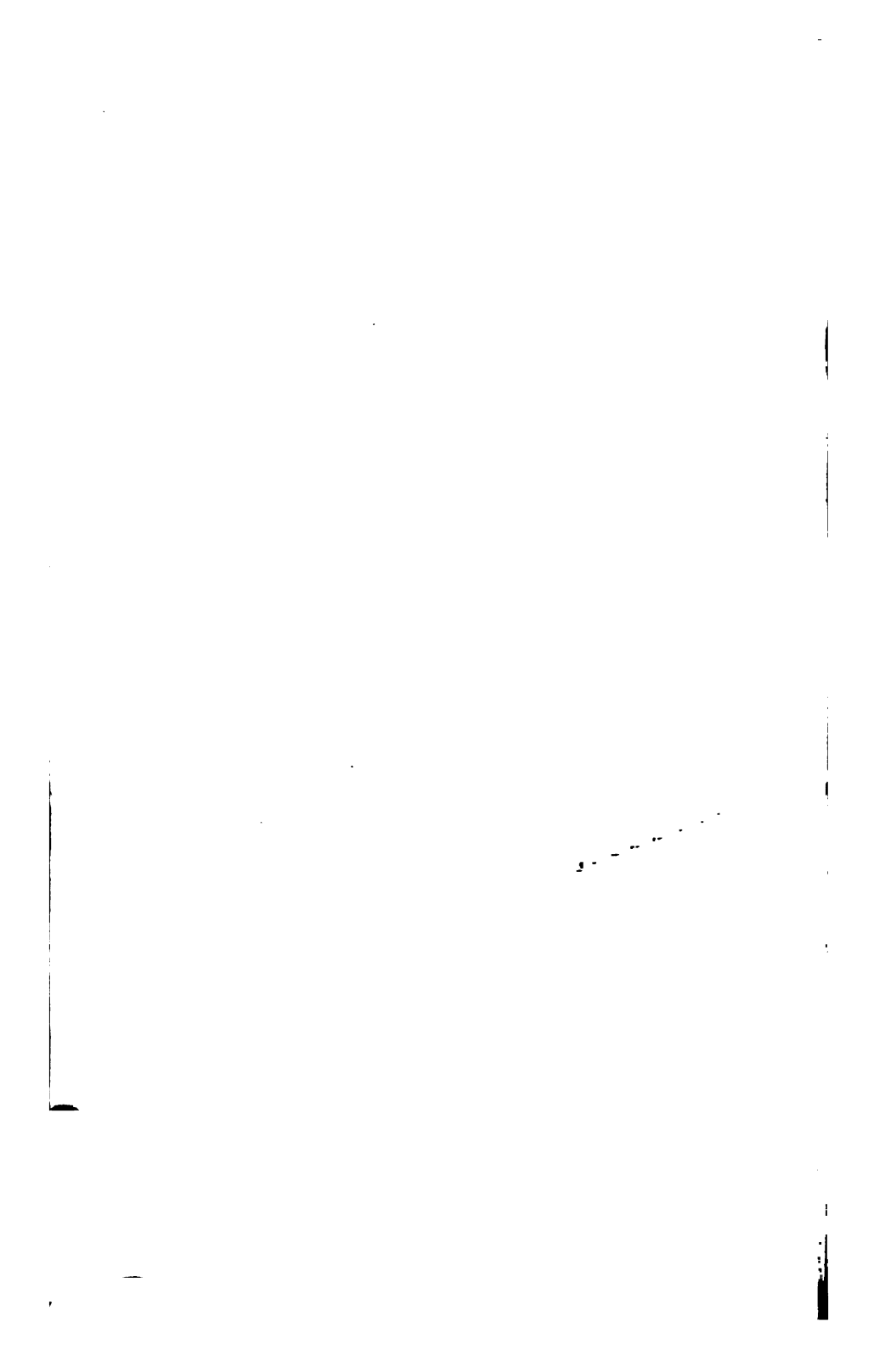
Superintendent.



BY AUTHORITY.

LANSING:

JOHN A. KERR & CO., PRINTERS TO THE STATE.
1868.



Mich. Dept. of health.

FIRST ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

MARRIAGES AND DEATHS,

ENDING APRIL 5th, 1868.



BY AUTHORITY.

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JOHN A. KERR & CO., PRINTERS TO THE STATE.
1868.

Mich. Dept. of health.

FIRST ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

MARRIAGES AND DEATHS,

For the Year Ending April 5th, 1868.

Compendium of

HENRY B. BEECHER,

Superintendent.



BY AUTHORITY.

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1868.

Public Health

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Public Health
Dr. Henry F. Vaughan
7-14-44

P R E F A C E.

STATE DEPARTMENT, MICHIGAN.

SECRETARY'S OFFICE, }
Lansing, Dec. 31st, 1868. }

To His Excellency the Governor of Michigan :

Pursuant to the requirements of Act No. 194, S. L. 1867, I have the honor herewith to submit my report of births, marriages and deaths for the year ending April 5th, 1868.

This forms the first report from this office under the law, and although its tables and deductions are not so extended as I could have desired, owing to the late day of receiving many of the returns from County Clerks, and the entire absence of returns from several counties; yet it is believed that it will afford some information of interest and practical value, and is, perhaps, as complete as could reasonably be expected in the first year of the practical operation of the law.

It can hardly be expected, in the introduction of a law of this nature, requiring the co-operation of so many persons in its execution, widely separated and often living in sparsely populated districts, that no errors should occur, or that the law should always so commend itself to those required to perform the duties it imposes, as to command at first

their hearty co-operation. In view, however, of the limited time the law has been on trial, and the difficulties incident to its thorough execution, it is hoped that the results thus far attained will not be found unsatisfactory, but rather tend to justify the wisdom of such a law.

Immediately upon the passage of the law, the necessary blank forms were prepared with great care, for the original returns to the County Clerks. With these, were sent to the Clerks, for distribution by them, printed instructions to Supervisors and Assessors, to assist them in making complete returns of births and deaths. A pamphlet was also compiled, from the laws of the State, relative to the duties of persons solemnizing marriages, which has been furnished to Clergymen and Justices of the Peace, through the offices of the County Clerks, and also from this office direct, on application.

A record each, of births, marriages and deaths, was also prepared and furnished each County Clerk.

I am happy to state, that with few exceptions, I have received the cordial and ready assistance of the County Clerks, in the execution of the law. Upon these officers, in a great measure, depend the accuracy and consequent value of the annual reports and original records.

Should the County Clerks fail to exact complete returns from those required to make them, the benefits intended to be gained will not be secured.

The work of examining and recording the orig-

inal returns, and making transcripts of records for this department, requires much time and care, for which they should receive a just compensation. A majority of the Supervisors and Assessors are believed to have promptly and thoroughly performed the duties required of them. It is hoped that the present Legislature will make some certain provision for paying them for this additional work.

While I take pleasure in testifying to the faithfulness with which most of these officers have performed their duties, I am sorry to say that some have entirely neglected them. Notwithstanding the repeated and urgent efforts which have been made through letters and circulars from this department, five counties have wholly failed to make returns, and from several only partial returns have been received. In some cases this has resulted from inadvertence on the part of Supervisors and Assessors; while in others, it is due to their intentional neglect, because no compensation was provided by law for the work.

Several instances have been reported of the refusal of Clergymen to make return of marriages, and of their deliberately violating the statute, after its provisions had been brought to their knowledge. It is gratifying to know that these are very rare and exceptional cases, and that the performance of this duty, so important to the parties married, and their prospective offspring, is seldom neglected by those solemnizing marriages. Should the complaint be repeated, steps will be taken to convince

the offending parties that their plea of the "higher law," will hardly avail in the courts as against our statute law. It is believed that by granting compensation, either per capita or per diem, to those officers who are required to make return of births and deaths to the County Clerks, sufficient to induce a careful and perfect canvass, which must necessarily be to them a work of patient inquiry and investigation, much of the difficulty in procuring complete and valuable returns will be remedied.

No legal measures have been taken to secure delinquent returns, as it is believed that legislation as to minor points of the law, and the time necessary to familiarize the people with it, will in most cases, correct the evils complained of, more readily than recourse to the courts.

No returns have been received from the city of Detroit. It is claimed by the Common Council that the law was not intended to apply to that city, or if it were, that compliance with it is impossible, as the assessment is made there from October to April. It is hardly to be supposed that the Legislature intended to except from the provisions of the law, the city of Detroit, from which it is anticipated our most valuable returns, in a statistical point of view, will be received. I suggest such legislation as shall remove the difficulty alluded to.

I would also recommend an amendment of the law, so that the returns shall include the year preceding the first day of April, instead of the first Monday of April. This would simplify the work

of this office, and relieve us from fractional parts of a month in our calculations.

I would also recommend that the first day of September be fixed as the date for making returns by County Clerks to the Secretary of State. This will give ample time to the County Clerks to make their returns, while the additional time is needed in this department for preparing the annual report, before the close of the year, which is found to be a work of much time and labor.

I take this occasion to acknowledge my obligation to the Hon. Oliver Warner, Secretary of State of Massachusetts, for reports, forms of blanks, and information kindly furnished me, and from which I derived much aid in giving practical effect to the law.

My thanks are also due to Dr. I. H. Bartholomew, of this city, late one of the Vice Presidents of the State Medical Society, who has rendered valuable assistance in the nomenclature and classification of diseases; and, also, to S. H. Row, Esq., Deputy Secretary of State, to whom the details of the work have been entrusted.

Very respectfully,

OLIVER L. SPAULDING,

Secretary of State.



FIRST REGISTRATION REPORT.

FOR THE YEAR ENDING APRIL 5th, 1868.

In presenting the following tables and observations, constituting the First Annual Report relating to the registration and return of births, marriages and deaths, it may be well to consider some of the advantages which a perfect system of registration may give to the citizens of our State.

The prominence which Michigan occupies to-day, her progress in nearly every branch of industry, the excellence of her school system, her advancement in the arts and sciences, mechanics and agriculture, can be directly traced to judicious legislative enactments.

Few more important laws are contained in our statutes, than that requiring the registration of births, marriages and deaths.

In a legal point of view, it is of the greatest importance that our citizens should be able to produce record evidence of births, marriages and deaths, in cases where it is necessary to establish proofs of relationship in the inheritance and transmission of estates.

The necessity of a perfect system of registration has been fully demonstrated within the past few years, by the frequent application of parties claiming pensions and dues from the General Government, arising from the loss of relatives in the late war of the rebellion, for the necessary record proofs, which in too many cases could not be furnished, on account of the culpable carelessness of those whose duty it was to make and preserve them.

In nearly all cases requiring proofs of relationship, a certified copy of the record established by law, is more available than the production of testimony from living witnesses.

In a sanitary point of view, too much importance cannot be attached to the great benefits which will accrue from the information to be derived from statistics on death and its causes. As years intervene, comparative tables can be arranged, showing the increase or decrease of diseases which cause the highest rate of mortality, showing also, the influence of locality, season, sex and occupation, upon the duration of human life. The accumulation of such data, cannot fail to suggest the most valuable truths. Much that now is hidden, or at least the work of surmise and imperfect observation, regarding vital statistics in our State, can thus be demonstrated with comparative certainty.

The statistics thus obtained, will lead to a more perfect knowledge of the causes which influence, and suggest remedies for the prevention of diseases incident to our State—averting calamities which might otherwise seem inevitable—thereby best answering the obligations of a true philanthropy.

The success of similar reports, for generations, in many of the countries of Europe, in Massachusetts, extending through a series of twenty-four years, and in other of our States for less periods, leads to the inference that our own law, if thoroughly enforced, may lead to the successful results contemplated by its enactment.

The whole number of names registered during the year, ending April 5, 1868, as returned by the various County Clerks, was thirty-seven thousand and two hundred (37,200.)

These are divided as follows: Nineteen thousand five hundred and forty-four (19,544) children were born alive,* of which ten thousand one hundred and seventy-seven (10,177) were males, and nine thousand three hundred and sixty-seven (9,367) were females.

* See stillborn, page 7.

Five thousand seven hundred and three (5,703) couples—or eleven thousand four hundred and six (11,406) persons—were married. Of this number, three thousand two hundred and ninety-three (3,293) were American marriages; six hundred and ninety-five (695) were marriages of foreign parties exclusively; six hundred and ninety-two (692) were marriages in which one party was a foreigner; and ten hundred and twenty-three (1,023) marriages were reported, with the nativity of the parties unknown.

The whole number of deaths was six thousand two hundred and fifty, (6,250,) of which three thousand three hundred and thirty-one (3,331) were males, and two thousand nine hundred and nineteen (2,919) were females.

DELINQUENT.

In the observations and tables of this report, it must be borne in mind, that no returns of either births, marriages or deaths, have been received from the county of Saginaw, containing two large cities, or from the counties of Chippewa, Keweenaw, Mackinac and Manitou. No returns of births or deaths were received from the populous city of Detroit, and no returns of marriages from the entire county of Wayne. The births and deaths which occurred in the 1st and 2d districts of Owosso city, and in the following townships, were not returned: Perry, Woodhull and Hazleton, Shiawassee county; LaCroix, Emmet county; Marquette and Negaunee, Marquette county; Gun Plains, Lee, Otsego, Pine Plains and Saugatuck, Allegan county; Beaver and Arenac, Bay county; and Rockland and Carp Lake, Ontonagon county.

Returns from all these delinquent counties, cities and townships, would materially change the foregoing totals, and proportionately affect all the computations that follow.

The natural increase of population, or the excess of births over deaths, for the year, is thirteen thousand two hundred and ninety-four. (13,294.)

Assuming that those portions of the State, from which returns have been received, contain a population* of 1,000,000, one living child was born to every 51.17 persons. One person in every 87.67 was married. One person in every 160 died.

*A perfect census of our State, would, without doubt, show a population in excess of 1,100,000. The State census of 1864, is universally conceded to be very imperfect, and as eight years have intervened since the compilation of the U. S. census, many interesting tables, which might otherwise have been given, with a true data of the population of our State as a basis, are unfortunately wanting in this report.

BIRTHS.

The average number of births within several specified periods of time, is as follows:

Year—19,544.

Month—1,628.67.

Week—375.08.

Day—53.55.

The percentage of males is 52.075, and of females, 47.925. The proportion of males to females in the various counties, is shown in Table I of Births.

The greatest number of births in any one month, occurred in March, 1868, during which 2,043 children were born, while the month least prolific, was May, 1867, which produced but 1,372, or 671 less than March.

The following table exhibits the

BIRTHS IN QUARTERLY RATES.

Quarter ending June, 1867,.....	4,330
“ “ September, 1867,.....	4,887
“ “ December, 1867,.....	4,717
“ “ March, 1868,	5,501
Not stated,.....	109

NATIVITY.

The percentage of the nativities of children born, is

American,.....	58.28
Foreign,.....	26.27
American father and foreign mother,.....	4.50
Foreign father and American mother,.....	7.15
Unknown,.....	3.80

The nativity of the parents of children born during the year, is shown at length in Table II.

RACES.

The number of children born of African and Indian descent, is shown below by counties, in which the births occurred:

COUNTIES.	Total.	AFRICAN.		INDIAN.	
		Male.	Fem.	Male.	Fem.
Allegan,	2	1	1	....	....
Berrien,	16	10	6	....	....
Calhoun,	10	4	6	....	....
Cass,	38	20	18	....	....
Emmet,	5	....	....	5	....
Genesee,	1	....	1	....	....
Houghton,	19	....	....	9	10
Ingham,	4	1	3	....	....
Kalamazoo,	4	....	4	....	....
Kent,	1	....	1	....	....
Lapeer,	2	....	2	....	....
Lenawee,	5	4	1	....	....
Macomb,	1	1	....	....	....
Manistee,	1	1	....	....	....
Mecosta,	1	....	1	....	....
Monroe,	2	....	2	....	....
Montcalm,	2	....	2	....	....
Oakland,	3	2	1	....	....
St. Clair,	1	....	1	....	....
St. Joseph,	1	1	....	....	....
Van Buren,	6	1	5	....	....
Washtenaw,	13	6	7	....	....
Wayne,	3	2	1	....	....
Total,	141	54	63	14	10

PLURAL BIRTHS.

Triplets.—But one case of triplets was reported to this office. That occurred in the city of Marshall, Calhoun county, of Irish parentage, and was composed of 2 males and 1 female.

Twins.—There were 226 cases of twin births reported, producing 452 children, of which 223 were males, and 229 were females. The proportion of twin children to those of single birth is as 1 to 43½.

Illegitimate.—There were 121 illegitimate children born, of which 66 were males and 55 females; making 1 illegitimate child to 160½ of legitimate birth, or a little over six-tenths of one per cent. of all the births in the State.

Still-born.—The number of still-births reported was 27. These were erroneously reported in the returns of deaths, and do not enter into the tables of this report, except in the classification of diseases.

TABLE I
BIRTHS, by Counties—Proportion of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Allegan,	50.39	49.61	102
Alpena,	48.57	51.43	93
Antrim,	42.31	57.69	73
Barry,	50.22	49.78	101
Bay,	52.88	47.07	109
Benrien,	51.12	48.88	105
Branch,	49.37	50.63	97
Calhoun,	51.88	48.12	106
Cass,	52.88	47.17	112
Cheboygan,	53.85	46.15	117
Chippewa, (not returned,) .....	.....	.....	.....
Clinton,	48.07	51.93	93
Delta,	70.83	29.17	243
Eaton,	54.15	45.85	118
Emmet,	55.77	44.23	126
Genesee,	50.40	49.60	102
Grand Traverse,	51.43	48.57	106
Gratiot,	48.86	51.14	95
Hillsdale,	50.44	49.56	102
Houghton,	52.7	47.3	111
Huron,	48.08	51.97	92
Ingham,	52.85	47.15	112
Ionia,	52.89	47.11	112
Iosco,	37.04	62.96	59
Isabella,	46.53	53.47	87
Jackson,	54.66	45.34	121
Kalamazoo,	58.83	46.17	117
Kent,	52.05	47.55	109
Keweenaw, (not returned,) .....	.....	.....	.....
Lapeer,	52.58	47.43	111

TABLE 'I.—BIRTHS,—CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Leelanaw, (not returned,).....			
Lenawee,	51.62	48.88	107
Livingston,.....	54.11	45.89	118
Mackinac, (not returned,).....			
Macomb,	52.41	47.59	110
Manistee,.....	52.67	47.33	117
Manitou, (not returned,).....			
Marquette,	57.02	42.98	123
Mason,.....	54.55	45.45	120
Mecosta,	60.36	39.64	150
Menominee,	40.91	59.09	69
Midland,	40.28	59.72	68
Monroe,.....	51.9	48.1	106
Montcalm,.....	51.92	48.08	106
Muskegon,	50.79	49.21	105
Newaygo,	46.94	53.06	88
Oakland,	51.6	48.4	107
Oceana,	53.33	46.67	114
Ontonagon,	43.24	56.76	76
Ottawa,	53.97	46.03	117
Saginaw, (not returned,).....			
Sanilac,	52.35	47.65	110
Shiawassee,	56.06	43.94	127
St. Clair,.....	54.25	45.75	118
St. Joseph,.....	54.00	46.00	117
Tuscola,.....	52.34	47.66	110
Van Buren,	53.11	46.89	113
Washtenaw,.....	52.97	47.03	113
Wayne,.....	50.29	49.71	101
State,.....	52.08	47.92	109

TABLE II.—BIRTHS.

EXHIBITING the Sex, condition, (as twin or illegitimate,) and Parentage of Children born in the several Counties, during the year ending April 5, 1868.

COUNTIES.	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.				
		Males.	Females.	Unknown.	Twins.		Illeg'm'te		American.	Foreign.	Am. Pa. For'n Mo.	For'n Pa. Am. Mo.	Unknown.
					Male.	Fem.	Male.	Fem.					
Allegan,	516	258	254	4	6	8	....	2	270	165	25	34	22
Alpena,	86	17	18	....	....	....	....	....	18	11	5	5	1
Antrim,	52	22	30	....	4	2	....	....	29	15	2	5	1
Barry,	463	232	230	1	2	2	2	....	313	61	32	39	13
Bay,	193	101	92	....	2	2	....	....	37	51	4	16	85
Berrien,	847	432	413	2	13	9	7	1	536	192	38	73	8
Branch,	557	275	282	....	4	2	3	1	474	35	20	27	1
Calhoun,	778	401	372	5	12	12	....	1	508	174	34	48	14
Cass,	415	215	192	8	7	3	2	....	371	13	8	16	5
Cheboygan, ..	13	7	6	....	....	....	....	....	3	5	3	1	1
Chippewa(not return ed.) ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Clinton,	233	112	121	....	2	....	....	1	158	32	7	17	19
Delta,	24	17	7	....	2	....	1	....	5	15	1	3	....
Eaton,	508	279	232	2	3	15	....	....	440	21	13	25	9
Emmet,	52	29	23	....	1	1	2	1	36	7	5	3	1
Genesee,	631	313	313	....	12	6	3	3	423	121	30	43	9
Gr'd Traverse, ..	105	59	51	....	....	....	....	....	49	30	7	2	17
Gratiot,	220	107	112	1	5	7	3	....	163	26	5	9	12
Hillsdale,	563	284	279	....	3	9	....	....	473	34	13	38	....
Houghton, ...	74	39	35	....	3	1	....	2	20	38	5	11	....
Huron,	234	110	119	5	7	4	....	....	23	171	9	23	8
Ingham,	459	241	215	3	6	10	1	2	310	66	19	25	39
Ionia,	451	238	212	1	7	9	....	....	310	46	15	39	41
Iosco,	27	10	17	....	....	2	....	1	9	10	6	2	....
Isabella,	101	47	54	....	....	....	....	1	79	13	....	9	....
Jackson,	623	340	282	1	9	3	1	2	436	106	20	43	19
Kalamazoo, ..	644	344	295	5	10	8	2	2	426	137	32	42	7
Kent,	742	368	339	35	6	4	....	1	374	197	37	79	55
Keweenaw, ... (not return ed.) ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Lapeer,	449	234	211	4	....	2	3	2	212	126	42	39	30

TABLE II.—BIRTHS.—CONTINUED.

COUNTIES.	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.					
		Males.	Females.	Unknown.	Twins.		Illeg'm'te		American.	Foreign.	Amer. Pa. Foreign Mo.	Foreign Pa. Amer. Mo.	Unknown.	
					Male.	Fem.	Male.	Fem.						
Leelanaw, (not return ed.)...														
Lenawee,	871	445	417	9	14	14	4	2	540	172	42	55	62	
Livingston, ..	383	204	178	6	5	3	1	2	284	54	12	23	10	
Mackinac, (not return ed.) ..														
Macomb,	561	294	267		9	9	1		262	215	34	50		
Manistee,	181	69	62		4	2			59	61	5	5	1	
Manitou, (not return ed.) ..														
Marquette, ...	114	65	49						3	105		6		
Mason,	23	12	10						10	9		1	2	
Mecona,	112	67	44	1					49	38	11	9	5	
Menominee, .	22	9	18						10	4	1	7		
Midland,	73	29	43	1					39	16	7	3	8	
Monroe,	584	300	278	6	8		3	1	366	144	31	47	2	
Montcalm, ...	260	135	125		5	7	2	2	183	38	10	14	15	
Muskegon, ...	316	160	155	1	1	1	1		109	152	18	40	2	
Newaygo, ...	104	46	52	6				2	66	16	4	6	12	
Oakland,	662	300	272		1	5		4	358	94	32	43	36	
Oceana,	180	96	84		1	3		2	111	37	11	17	4	
Ontonagon, ..	74	32	42			2			8	56	4	6		
Ottawa,	705	374	319	12	7	9	8	1	212	416	26	29	22	
Saginaw, (not return ed.)...														
Sanilac,	319	167	152		3	3	3	1	26	230	34	29		
Shiawassee, ..	330	185	145			6	1	1	228	44	20	23	15	
St. Clair,	353	447	377	34	11	5	2	2	241	556	23	24	14	
St. Joseph, ...	513	278	237	3	3	4		2	402	60	11	27	13	
Tuscola,	214	112	102						96	69	8	12	29	
Van Buren, ..	649	342	302	5	7	11	2	2	519	46	23	43	8	
Washtenaw, ..	696	366	325	5	6	12	4	3	351	218	23	64	40	
Wayne,	877	438	433	6	6	12	9	5	360	365	47	89	16	
Total,	19,544	10,068	9,284	172	222	229	66	55	11,391	5,134	379	1,367	743	

TABLE III.—BIRTHS.

EXHIBITING, by Counties, the number of Children born in each Month, during the year ending April 5, 1868.

COUNTIES.	MONTHS.												
	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Allegan,	52	38	31	40	46	42	53	41	41	36	46	49	1
Alpena,	3	1	2	2	2	....	3	2	3	5	5	7	....
Antrim,	5	2	6	3	2	4	9	4	....	10	1	6	....
Barry,	35	33	34	47	41	33	43	37	44	45	23	41	2
Bay,	21	13	11	13	17	21	14	16	18	15	13	19	2
Berrien,	62	50	51	69	80	59	71	68	73	82	89	88	....
Branch,	45	39	31	38	46	50	51	43	45	44	54	70	1
Calhoun,	60	59	56	61	57	75	68	60	72	70	75	61	4
Cass,	27	34	23	34	36	39	26	34	38	37	37	44	6
Cheboygan,	1	1	1	....	....	....	2	1	1	2	2	2	....
Chippewa, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Clinton,	22	20	19	21	25	15	18	22	16	18	23	14	....
Delta,	3	1	....	1	6	3	....	1	3	3	1	2	....
Eaton,	34	30	28	34	54	34	47	38	48	52	49	55	5
Emmet,	3	4	2	2	6	2	2	5	11	4	5	1	....
Genesee,	54	42	55	47	58	55	53	50	34	63	53	67	...
Grand Traverse,	8	7	14	11	8	7	5	7	6	10	11	10	1
Gratiot,	21	16	17	15	18	23	13	18	20	16	13	25	....
Hilledale,	37	34	41	44	46	62	42	61	56	48	33	54	....
Houghton,	5	2	4	4	8	5	9	6	7	8	4	10	2
Huron,	23	16	21	11	17	20	10	15	20	22	13	40	1
Ingham,	24	43	33	37	28	43	39	26	29	37	32	55	23
Ionia,	38	33	41	29	44	40	38	40	28	33	45	41	1
Iosco,	2	1	3	1	4	2	1	2	1	1	1	1	7
Isabella,	13	11	8	11	4	5	5	9	13	5	10	9	....
Jackson,	38	59	51	45	50	54	54	43	54	42	57	74	2
Kalamazoo,	63	36	37	51	49	51	63	61	52	51	66	63	1
Kent,	68	55	58	51	47	72	66	55	50	71	61	81	7
Keweenaw, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Lapeer,	42	27	27	43	48	42	33	28	37	34	41	42	....

TABLE III.—BIRTHS,—CONTINUED.

COUNTIES.	MONTHS.												
	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Leelanaw, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Lenawee,	69	59	71	65	89	68	72	68	72	74	86	82	....
Livington,	28	36	23	27	29	28	33	27	30	33	37	40	2
Mackinac, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Macomb,	18	....	5	47	54	62	62	57	53	59	69	75	....
Manistee,	21	3	6	10	9	14	8	10	10	12	8	19	1
Manitou, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Marquette,	19	13	7	6	9	5	4	5	6	9	13	18	....
Mason,	2	....	....	1	1	5	6	....	1	1	2	3	....
Mecosta,	10	9	9	7	11	10	12	6	6	16	7	9	....
Menominee,	1	1	....	....	2	2	4	2	....	3	3	4	....
Midland,	3	4	6	11	11	4	7	3	6	3	6	8	1
Monroe,	50	39	53	41	32	44	63	45	42	50	59	64	2
Montcalm,	26	26	21	20	27	21	22	10	16	24	20	26	1
Muskegon,	14	19	33	28	25	27	24	31	19	27	39	29	1
Newaygo,	17	8	7	11	8	8	7	11	5	8	7	6	1
Oakland,	48	43	35	41	49	51	35	50	51	51	44	61	....
Oceana,	13	11	21	13	24	15	12	17	14	11	11	18	....
Ontonagon,	4	7	9	6	5	6	10	2	6	4	9	6	....
Ottawa,	72	47	59	77	54	47	57	36	54	61	45	90	6
Saginaw, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....
Sanilac,	37	27	25	23	23	27	22	13	20	39	29	33	1
Shiawassee,	20	26	23	29	26	25	30	30	28	38	29	26	....
St. Clair,	64	61	50	67	97	66	73	61	63	75	87	86	8
St. Joseph,	48	41	51	37	42	46	39	38	36	41	46	53	....
Tuscola,	16	21	17	20	11	17	22	16	16	13	17	17	11
Van Buren,	45	59	52	56	67	52	44	56	52	58	51	56	1
Washtenaw,	52	61	41	60	54	66	64	48	59	44	67	80	....
Wayne,	67	45	56	73	98	62	81	66	64	81	89	93	2
Total,	1573	1372	1385	1542	1704	1641	1661	1502	1554	1699	1759	2043	109

MARRIAGES.

The number of marriages during the year ending April 5, 1868, was five thousand seven hundred and three.

The largest number of marriages occurred in the month of December, 1867, being eight hundred and seventy-six, (876,) and the least number during any one month was in April, 1867, being only one hundred and eighty-one, (181.)

The number married in each month during the year, is shown by counties, in Table I of marriages.

The following gives an exhibit of the

MARRIAGES IN QUARTERLY RATES:

Quarter ending June, 1867,.....	527
“ “ September, 1867,.....	1,296
“ “ December, 1867,.....	2,489
“ “ March, 1868,.....	1,377
Not stated,.....	14

Thus it is seen that the number of marriages solemnized during the quarter ending December, is by far the largest. This is influenced by custom and religious observances. Our “Thanksgiving” and “Christmas,” and the near approach of “Happy New Year,” seems to make this season the favored time for entering into the marriage relation.

The following interesting table exhibits the ages, respectively, of parties married during the year ending April 5th, 1868:

AGES OF MALES.	AGES OF FEMALES.														Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Unknown.	
Under 20,.....	130	26	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	161
20 to 25,.....	1262	871	111	12	7	1	2	.....	.....	.....	.....	.....	.....	13	2279
25 to 30,.....	608	768	273	38	19	3	2	.....	.....	.....	.....	.....	.....	9	1720
30 to 35,.....	122	212	162	75	18	4	1	.....	.....	.....	.....	.....	.....	9	603
35 to 40,.....	38	69	82	51	24	13	3	.....	1	.....	.....	.....	.....	2	283
40 to 45,.....	5	34	39	39	31	15	7	.....	1	.....	.....	.....	.....	.....	171
45 to 50,.....	10	17	11	23	32	20	11	3	.....	.....	.....	.....	.....	1	128
50 to 55,.....	1	4	18	28	19	16	13	7	1	1	.....	.....	.....	1	109
55 to 60,.....	.....	3	3	8	8	12	8	7	3	2	1	.....	.....	.....	55
60 to 65,.....	1	2	2	1	4	2	5	12	4	1	.....	1	.....	.....	35
65 to 70,.....	1	.....	2	1	4	3	2	4	2	2	6	2	.....	.....	29
70 to 75,.....	.....	.....	.....	.....	.....	.....	2	3	2	3	4	.....	.....	.....	14
75 to 80,.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	3
80 and over,...	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Unknown,.....	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	108	112
Total Females,..	2179	2008	707	276	166	89	57	36	13	11	11	4	1	145	5703

Of the whole number of persons married, over 20 per cent. were under twenty years of age, while over 58 per cent. were under twenty-five.

Of the whole number of females married, over 38 per cent. were under twenty years of age, while over 73 per cent. were under twenty-five.

Less than three per cent. of the males were under twenty years, and less than 43 per cent. were under twenty-five.

The oldest person married was a man aged 82 years, a resident of Ionia county, who found his bride, a lady of 61 years, in the county of Genesee.

The oldest bride in the State was aged 75 years, a resident of Lapeer county. Her fortunate spouse was aged 79 years. These constitute the oldest couple married in the State.

One man in Eaton county, aged 66 years, led a bride of 19 summers to the hymenial altar; while the youngest worshiper at the matrimonial shrine was a female in Tuscola county, of the age of 13.

Three thousand eight hundred and fifty-four females showed their appreciation of that wisdom acquired by superior age, by marrying husbands older than themselves, while but 283 men chose wives superior to themselves in years.

The average age of parties married during the year is as follows:

Males,.....	28½ years.
Females,.....	23½ "
Both sexes,	26 "

NATIVITY.

The whole number of purely American marriages was three thousand two hundred and ninety-three, (3,293,) and the whole number of marriages in which the parties were foreigners exclusively, was six hundred and ninety-five, (695.)

There were six hundred and ninety-two marriages in which one party was a foreigner; and the number of marriages returned, with the nativity of the parties not stated, was ten hundred and twenty-three, (1023.)

The percentage of the nativities is as follows:

American,.....	57.74
Foreign,.....	12.19
American male and foreign female,.....	4.68
Foreign male and American female,.....	7.45
Unknown,	17.94

In the marriages composed of one foreign party, one hundred and fifty-eight more foreign males married Americans, than American males married foreigners.

In connection with the subject of nativity, some interesting facts may be stated from the reports of the Commissioners of Emigration. During the year 1868, the whole number of emigrants arriving at the port of New York was 213,686, representing thirty-two nationalities, of which nearly one-half were Germans.

Of the whole number, 65,714 remained in New York, 34,625 went to Illinois, 16,537 to Wisconsin, 11,133 to Ohio, while only 7,324 came to Michigan.

Table II of marriages, shows by counties, the nativities and ages in years, of parties married during the year.

MARRIAGES.

[illegible]

TABLE I.—MARRIAGES,—CONTINUED.

COUNTIES.	Months.												No. of Mar- riages.
	April.	May.	June.	July.	August.	Sept.	October.	November.	December.	January.	February.	March.	Unknown.
Marquette, .....	.....	.....	.....	1	2	11	7	.....	.....	1	1	.....	23
Mason, .....	.....	2	.....	2	3	.....	3	1	3	4	1	.....	19
Meosta, .....	.....	.....	.....	.....	.....	.....	.....	6	3	4	3	7	23
Menominee, .....	.....	3	2	.....	1	.....	.....	1	.....	2	.....	1	10
Midland,	1	.....	1	2	1	2	1	1	3	5	2	1	20
Monroe,	1	1	6	1	6	5	12	20	10	15	13	5	93
Montcalm,	6	6	6	10	5	6	7	2	9	5	5	2	69
Muskegon,	2	1	.....	10	5	11	10	18	14	8	5	10	95
Newaygo, .....	.....	.....	.....	3	2	5	10	4	5	4	2	4	41
Oakland,	3	1	1	2	4	4	11	24	29	22	14	13	129
Oceana, .....	.....	.....	.....	.....	.....	4	6	8	7	10	4	6	45
Ontonagon,	1	2	1	1	2	2	.....	.....	.....	.....	.....	.....	9
Ottawa, .....	.....	2	.....	11	12	12	24	9	15	15	10	12	122
Saginaw, (not returned.) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sanilac,	2	4	5	9	5	8	4	10	14	2	2	6	71
Shiawassee, .....	.....	.....	.....	5	7	12	13	17	15	13	11	1	94

St. Clair,.....	3	5	4	23	22	22	22	29	30	28	18	5	15	.....	204
St. Joseph,.....	23	17	8	25	18	30	35	41	15	15	13	.....	.....	.....	276
Tuscola,.....	2	1	2	1	5	2	15	8	16	8	7	.....	.....	.....	75
Van Buren,.....	1	.....	1	7	10	11	22	21	23	22	11	7	.....	.....	141
Washington,.....	4	5	1	6	5	32	29	31	35	26	14	7	.....	.....	193
Wayne, (not returned) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State,.....	181	189	157	324	387	605	804	752	873	628	341	408	.....	.....	5,703

Eaton,.....	199	70	2	3	5	116	91	186	78	23	20	7	8	7	2	3	3	1	.....	8
Emmett,.....	13	5	.....	1	2	5	12	7	3	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Genesee,.....	133	125	11	12	15	19	71	129	84	26	15	7	9	6	4	3	3	2	.....	1
Grand Traverse,.....	60	23	14	4	5	9	32	43	25	4	6	2	1	1	.....	1	.....	.....	.....	.....
Gustick,.....	77	55	4	3	12	3	43	56	23	10	7	2	1	.....	1	1	1	1	.....	5
Hillsdale,.....	210	160	3	6	4	37	89	172	85	23	16	8	10	5	1	3	1	.....	.....	8
Houghton,.....	17	13	.....	.....	.....	4	5	10	7	3	2	1	.....	.....	.....	.....	.....	.....	.....	6
Huron,.....	40	3	12	.....	5	20	23	24	11	6	5	1	3	.....	.....	.....	1	.....	.....	6
Ingham,.....	246	188	7	13	19	19	81	191	116	46	16	10	11	9	4	2	1	2	.....	4
Ionia,.....	183	123	7	11	16	21	85	136	67	27	17	12	5	3	5	1	4	.....	.....	4
Iscro,.....	10	4	2	1	2	1	6	7	4	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Isabella,.....	27	27	1	2	5	.....	14	26	5	3	2	.....	.....	2	1	.....	1	.....	.....	.....
Jackson,.....	184	132	17	5	16	14	65	142	71	41	15	12	6	5	5	.....	2	2	.....	2
Kalamazoo,.....	168	115	19	4	13	7	54	116	73	26	13	7	6	4	1	3	1	.....	.....	7
Kent,.....	272	167	45	27	32	1	118	200	111	57	21	9	7	9	5	2	.....	.....	.....	5
Keweenaw, (not returned,)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer,.....	97	40	18	10	12	17	45	70	50	3	3	1	1	3	2	1	2	.....	.....	6
Leelanaw,.....	22	10	8	1	3	1	17	11	11	2	2	1	1	1	.....	.....	.....	.....	.....	.....
Lenawee,.....	180	143	14	7	6	10	66	126	93	16	12	5	4	3	3	2	.....	.....	.....	27
Livingston,.....	112	74	12	.....	7	19	26	106	39	9	10	6	6	2	1	2	1	1	.....	5
Mackinac, (not returned,)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb,.....	106	60	20	8	18	.....	43	82	46	25	7	3	2	2	.....	2	.....	.....	.....	.....

122	OtawA,	28	53	10	12	4	48	78	51	14	18	7	7	4	3	1	2	2	0		
	Saginaw, (not returned,)																				
71	Sanilac,	5	42	10	14	.....	38	49	31	7	5	3	2	3	2	.....	.....	.....	2
94	Shiawassee,	60	5	3	7	10	42	80	32	17	7	2	3	.....	1	.....	2	.....	2
204	St. Clair,	42	67	20	13	63	83	156	86	33	14	7	2	2	.....	.....	2	.....	23
276	CV St. Joseph,	154	8	5	5	104	104	238	110	39	12	14	9	7	4	3	.....	2	10	
75	Tuscola,	43	12	6	12	2	39	59	23	3	3	3	3	3	.....	.....	.....	.....	4
141	Van Buren,	106	1	3	9	22	64	105	56	14	16	8	6	6	.....	1	.....	.....	6
196	Washtenaw,	112	39	11	20	13	50	161	102	33	14	11	8	1	6	1	3	.....	.....
	Wayne, (not returned,) .....																		.....
																				
5,703	Total,	3,293	695	297	425	1,023	2,330	4,324	2,414	800	462	255	185	139	73	47	39	17	3	1	264

TABLE III.—MARRIAGES.

SHOWING, by Counties, the number of Marriages in which the Races of the Parties were other than White.

COUNTIES.	RACES.	
	African.	Indian.
Berrien,	4	.....
Branch,	1	.....
Calhoun,	1	.....
Cass,	5	.....
Emmet, .....	.....	8
Hillsdale,	1	1
Ingham,	2	.....
Jackson,	2	.....
Kalamazoo,	4	.....
Kent,	3	.....
Leelanaw, .....	.....	2
Marquette,	1	.....
Mason, .....	.....	2
Mecosta,	1	.....
Montcalm,	1	.....
Oakland,	2	.....
Shiawassee, .....	.....	1
St. Clair,	1	.....
Van Buren,	1	.....
Washtenaw,	5	.....
Total,	35	14

CAUSES OF DEATH.

The observations contained in this report on specified causes of death, are of necessity based strictly upon the returns received at this Department. There is, on examination, no apparent reason for considering them more imperfect than those of births or marriages. Yet the fact of a birth or marriage having occurred, is more easily obtained than the scientific name of a disease, or the true cause of a death.

Some discrepancies are doubtless contained in the returns, resulting not only from the imperfect information given to supervisors and assessors, by heads of families and others cognizant of a death, but also from an imperfect diagnosis by physicians.

METEOROLOGICAL TABLE FOR THE YEAR.

MONTH.	Mean Temperature.	Am't of rain-fall.
April, 1867,.....	48° 20	2.190 inches.
May, "	51° 11	3.809 "
June, "	71° 61	2.828 "
July, "	71° 60	1.782 "
Aug., "	69° 78	1.740 "
Sept., "	56° 60	1.419 "
Oct., "	50° 60	2.108 "
Nov., "	40° 44	1.774 "
Dec., "	25° 31	1.340 "
Jan., 1868,.....	19° 00	1.470 "
Feb., "	18° 70	1.280 "
March, "	37° 80	4.650 "
Mean temperature for year,....	46° 73	
Total rain-fall,.....		26.39 inches.

The Weather—Is an important agent in connection with the public health. Through the courtesy of the authorities at the Agricultural College, Lansing, we are enabled to give the foregoing table of observations made at that institution. For the sake of comparison it was desired to give similar tables from other localities, but none were accessible.

No epidemic diseases have prevailed to any extent during the year.

Ten (10) persons lost their lives by railroad accidents. One (1) by lightning. Twenty (20) committed suicide. Eleven (11) murders are reported. Fifteen (15) died from poison, (whether accidental or intentional, not stated,) and one (1) from excessive heat.

Only two deaths are reported from wounds received in the United States service. This number would be augmented, without doubt, if a complete classification of the causes of deaths could have been made, showing that diseases contracted while in the service, and in rebel prisons, at last proved fatal, largely increasing the number of thirteen thousand six hundred and fifty Michigan men, who fell in action or died from wounds received during the late war of the rebellion.

TABLE

EXHIBITING, by Sex and Age, the Number of Deaths from all causes, during the year ending April 5, 1868.

AGE	Males.	Females.	Unknown.	PER CENT. OF THE SEXES.			Per Cent. of whole No. of Deaths.
				Male	Female	Unknown	
Under 5 years,	1,195	925	32	55.53	42.98	1.49	34.43
5 to 10,.....	163	150	7	50.94	46.87	2.19	5.12
10 to 15,.....	105	114	..	47.94	52.06	.....	3.50
15 to 20,.....	131	162	..	44.71	55.29	.....	4.69
20 to 30,.....	300	370	..	44.78	55.22	.....	10.72
30 to 40,.....	212	249	..	45.99	54.01	.....	7.38
40 to 50,.....	237	192	..	55.24	44.76	.....	6.86
50 to 60,.....	273	186	..	59.48	40.52	.....	7.35
60 to 70,.....	276	187	..	59.61	40.39	.....	7.41
70 to 80,.....	225	160	..	58.44	41.56	.....	6.16
80 and over,...	124	95	..	56.62	43.38	.....	3.50
Unknown,	61	109	10	33.89	60.56	5.55	2.88
Totals,.....	3,302	2,899	49	52.83	46.38	00.79	100.00

It is a surprising fact that of the whole number of deaths reported, from all causes, more than one-third were those of children under five years of age.

Whether or not this is the result of an imperfect knowledge of physiology and hygiene, diet, or a constitutional necessity, it is not practicable to discuss here. But it most certainly demands the highest consideration, not only of scientific men, but of the fathers and mothers of our State. Is not the large proportion of early deaths caused by insufficient and unsuitable clothing and improper diet?

The following table gives the number of deaths in quarterly rates, showing an increase through the year:

Quarter ending June, 1867,.....	1,261
“ “ September, 1867,.....	1,512
“ “ December, 1867,.....	1,558
“ “ March, 1868,.....	1,817
Not stated,.....	102

The estimated average age of all persons who died during the year, is as follows: Males, twenty-nine; females, twenty-six; both sexes, twenty-eight.

Table III of deaths shows, by counties, the ages in years, and sex, of all who died.

The name, place of death, and age of each person who died in the State during the year, aged ninety-nine or over, is shown below:

NAME.	AGES.			PLACE OF DEATH.
	Year.	Month.	Day.	
Jacob Poland,.....	104	....	...	Bridghampton, Sanilac Co.
Susanna Dubois,.....	103	....	...	Port Huron, St. Clair Co.
Catharine B. Kimball,	100	5	11	Franklin, Lenawee Co.
Roswell Raymond,...	99	10	7	Marathon, Lapeer Co.
John McWilliams,...	99	3	...	City of Flint, Genesee Co.
Debora Dopp,.....	99	1	20	Reading, Hillsdale Co.
John Warner,.....	99	....	...	Brooklyn, Jackson Co.

The following table enumerates the ten causes producing the highest rate of mortality, with the number of deaths resulting therefrom, and percentage of all deaths in the State;

CAUSE OF DEATH.	NUMBER.	PERCENTAGE.
Consumption,.....	952	15.23
Typhoid Fever,.....	362	5.79
Pneumonia,.....	313	5.01
Dysentery,.....	258	4.13
Old Age,.....	238	3.81
Dropsy,	209	3.34
Heart Disease,.....	206	3.30
Casualty,.....	198	3.17
Intermittent Fever,.....	176	2.82
Brain Disease,.....	160	2.56

TABLE I.—DEATHS.

THE number of Deaths from several Specified Causes of each Sex in each Month, and at different Specified Periods of Life, which were Registered during the year ending April 5, 1868.

		Consumption.	Typhoid Fever.	Pneumonia.	Dysentery.	Diarrhoea.	Croup.	Diphtheria.	Scarlatina.	Whooping Cough.	Measles.
SEX.	TOTALS.....	962	362	313	258	136	117	110	100	80	20
	Males.....	464	186	189	120	68	64	61	54	38	7
	Females.....	498	175	124	134	67	53	49	46	41	13
	Not stated.....		1		4	1				1	
MONTHS.	April.....	96	22	43	3	5	12	9	7	8	2
	May.....	71	9	20	11	5	2	8	1	10	1
	June.....	74	13	6	7	2	6	8	3	7	3
	July.....	64	19	14	14	7	8	3	2	4	1
	August.....	64	21	10	51	25	9	8	4	9	1
	September.....	72	42	11	73	39	6	15	2	12	....
	October.....	70	60	16	49	17	5	13	5	6	....
	November.....	70	48	18	24	3	5	10	4	1	....
	December.....	77	38	25	5	7	16	13	24	1	....
	January.....	78	36	35	4	5	23	4	17	3	4
	February.....	94	28	53	3	4	13	9	17	3	3
	March.....	109	24	61	4	10	11	12	13	14	5
	Unknown.....	13	2	4	5	2	1	3	1	2	....
	TOTALS.....	952	361	313	258	136	117	110	100	78	20
AGES.	Under 5.....	66	46	118	164	97	111	77	63	75	16
	5 to 10.....	15	32	10	19	7	4	20	30	3	1
	10 to 15.....	23	33	9	12	.....	.....	4	3	....	1
	15 to 20.....	67	52	8	5	1	.....	1	61	....	1
	20 to 30.....	239	62	20	6	3	1	6	1	....	....
	30 to 40.....	155	20	24	7	4	1	1	1	....	....
	40 to 50.....	119	29	17	9	2	.....	.....	.....	.....	1
	50 to 60.....	100	35	29	6	3	.....	1	1	....	....
	60 to 70.....	76	23	47	10	3	.....	.....	.....	.....	....
	70 to 80.....	57	8	24	4	5	.....	.....	.....	.....	....
	80 and over.....	11	2	6	3	2	.....	.....	.....	.....	....
	Unknown.....	24	19	1	13	4	.....	.....	.....	.....	....

TABLE II.—DEATHS.

THE Percentage of Deaths from several Specified Causes, in the State, of each Sex in each Month, and at different Specified Periods of Life, which were Registered during the year ending April 5, 1868.

		Consumption.	Typhoid Fever.	Pneumonia.	Dysentery.	Diarrhoea.	Croup.	Diphtheria.	Scarlatina.	Whooping Cough.	Measles.
State,.....		15.23	5.79	5.01	4.18	2.18	1.87	1.76	1.60	1.28	0.82
TOTALS,.....		100	100	100	100	100	100	100	100	100	100
SEX.	Males,.....	48.74	51.88	60.88	46.51	50.00	54.70	55.45	54.00	47.50	35.00
	Females,.....	51.26	48.34	39.62	51.94	49.26	45.30	44.55	46.00	51.25	65.00
	Not stated,.....		0.28		1.55	0.74				1.25	
MONTHS.	April,.....	10.08	6.08	18.74	1.16	3.68	10.25	8.18	7.00	10.00	10.00
	May,.....	7.44	2.48	6.89	4.26	3.68	1.71	7.27	1.00	12.50	5.00
	June,.....	7.76	8.59	1.91	2.71	1.48	5.12	2.73	8.00	8.75	15.00
	July,.....	6.71	5.26	4.47	5.43	5.15	6.84	2.73	2.00	5.00	5.00
	August,.....	6.71	5.81	3.19	19.78	18.36	7.68	7.27	4.00	11.25	5.00
	September,....	7.55	11.61	3.51	28.29	28.69	5.12	18.64	2.00	15.00	
	October,.....	7.35	16.58	5.10	18.96	12.51	4.27	11.82	5.00	7.50	
	November,....	7.35	13.25	5.79	9.80	5.59	4.27	9.11	4.00	1.25	
	December,....	8.08	10.49	7.98	1.94	5.14	13.67	11.81	24.00	1.25	
	January,.....	8.19	9.94	11.18	1.55	3.67	19.66	3.63	17.00	3.75	20.00
	February,....	9.87	7.73	15.97	3.10	2.94	11.10	8.18	17.00	3.75	15.00
	March,.....	11.55	6.63	19.49	1.55	7.34	9.46	10.89	13.00	17.50	25.00
	Unknown,.....	1.36	0.55	1.28	1.94	1.47	0.85	2.74	1.00	2.50	
TOTALS,.....		100	100	100	100	100	100	100	100	100	100
AGE.	Under 5,.....	6.93	12.82	37.70	63.57	71.82	94.87	70.00	63.00	96.15	80.00
	5 to 10,.....	1.58	8.86	3.19	7.36	5.15	3.43	18.18	30.00	3.85	5.00
	10 to 15,.....	2.42	9.14	2.83	4.65			3.64	3.00		5.00
	15 to 20,.....	7.03	14.40	2.56	1.94	0.74		0.91	1.00		5.00
	20 to 30,.....	25.10	17.16	6.39	2.33	2.21	0.85	5.45	1.00		
	30 to 40,.....	16.29	5.54	7.67	2.71	2.94	0.85	0.91	1.00		
	40 to 50,.....	12.50	8.03	5.43	3.49	1.47					5.00
	50 to 60,.....	10.50	9.69	9.26	2.33	2.21		0.91	1.00		
	60 to 70,.....	7.98	6.37	15.02	3.83	5.88					
	70 to 80,.....	5.99	2.20	7.67	1.55	3.67					
	80 and over,...	1.16	0.54	1.91	1.15	1.47					
	Unknown,.....	2.52	5.25	0.82	5.04	2.94					

If proof was needed of the importance and value of statistical information on the subjects which constitute this report, the foregoing table (II) would be sufficient.

Consumption.—The belief has always existed in Michigan that the inhabitants of the State were comparatively exempt from consumption. It is true that within a few years the impression has gained ground that the disease was increasing, but that any such large percentage of deaths occurred from that disease as is shown in the table, will greatly surprise the Michigan reader. In the Eastern States it was known that consumption was very prevalent and fatal, but in Michigan it was generally thought to be comparatively rare. The whole number of deaths reported in the State is 6,250; the number from consumption is 952, making the large percentage of 15.23. In Massachusetts the percentage of deaths from consumption to deaths from all causes, in 1865, was 17.69, showing a difference in favor of Michigan of only 2.46 per cent.

The percentage of females was 51.26, of males, 43.74.

The greatest number of deaths occurred in March; the least in July and August. The percentage for March was 11.55; for July and August it was 6.71.

The number of deaths in Spring was 276, or 28.9 per cent.

"	"	Winter	"	249,	26.1	"
"	"	Autumn	"	212,	22.3	"
"	"	Summer	"	202,	21.2	"

(In the season of Spring, March, 1868, is included with April and May, of 1867.)

There is no disease in the table that shows a mortality so evenly distributed through the seasons as consumption appears to be from the above comparison, but it is believed that even this uniformity is not greater than the average of years will show.

Six and ninety-three hundredths per cent. of the deaths occurred under the age of five years. This appears large, but it is not greater than the percentage reported in Massachusetts—

the average there for eleven years, ending in 1865, being 7.24 per cent. under five years.

The greatest mortality is between the ages of 20 and 30, the percentage being 25.10.

The mortality of different ages, shown in the foregoing table, is compared below with that shown in a table of the Massachusetts Report for 1865, extending over a period of 11 years:

MICHIGAN FOR 1867-8.		MASSACHUSETTS FOR 1855-1865.
Under 5 years,.....	6.93 per cent.	7.24 per cent.
5 to 10 "	1.58 "	1.31 "
10 to 15 "	2.42 "	1.74 "
15 to 20 "	7.03 "	8.82 "
20 to 30 "	25.10 "	25.99 "
30 to 40 "	16.29 "	18.69 "
40 to 50 "	12.50 "	12.56 "
50 to 60 "	10.50 "	9.30 "
60 to 70 "	7.98 "	7.81 "
70 to 80 "	5.99 "	5.16 "
80 and over,.....	1.16 "	1.22 "
Unknown,.....	2.52 "	.66 "

A coincidence so complete as this cannot be allowed to pass without comment.

In Michigan this is the first effort to accumulate these statistics. Our law is imperfect, our officers inexperienced. In Massachusetts they commenced the work over a quarter of a century ago. They have a good law, and must have gained experience.

Michigan is a new State, Massachusetts an old one; Michigan is inland, Massachusetts is sea-board; Michigan has a rich al-

livial soil and a malarious climate, Massachusetts has neither. The people of Michigan are mostly employed in agriculture and internal commerce; the people of Massachusetts much more in manufactures and foreign commerce. In fact, there is hardly a single external influence affecting health which they have in common, and notwithstanding all this, these two tables are almost identical, so nearly do they correspond; and this is not the only correspondence which might be shown.

We have refrained from giving tables showing correspondences as to percentage of deaths to population, because our last census is five years old, and also very imperfect. Other correspondences might be shown, but for similar reasons we do not now attempt it.

Still the lesson to be learned from this single table, we think, is sufficiently plain. The cause or causes which produce consumption are not partial or local in their character or effects, but general and extensive.

If it is said that in some localities it is much more frequent than in others, and that some of these localities are quite limited—admit it. That is, in these localities the conditions exist which are favorable to its development. We can admit no more. Some fields of a farm will produce much larger crops of wheat than others, but we do not look for the cause of the growth of wheat in any particular field. We rather find the cause of its growth—under those influences and conditions necessary to the development of vegetable life—to be in its peculiar cell organization, an organization which allies it to all growth.

Consumption is spread all over the globe, with a uniformity of distribution, a uniformity of fatality, in all ages and in both sexes, a uniformity in all seasons and even climates, that cannot be claimed for any other disease known. Hence, its cause must be found in some of those conditions of life which are most generally deemed necessary to existence and conducive to happiness. Further, consumption for many years has been increasing very steadily and rapidly, at least amongst civilized nations. Its

cause, then, must be an increasing cause, and must be developed through some close connection with the development of society and the progress of the world.

Can we not now discover some similarity between the conditions of society in Michigan and in Massachusetts, which may help to account for the strange uniformity in the prevalence of consumption in the two States.

Massachusetts has probably the best common school system and the best supported common schools in the world. In proportion to its age and wealth, Michigan is at least her equal.

According to the census of 1860—

Massachusetts has—		Michigan has—	
Public Schools,.....	4,134	Public Schools,.....	4,007
Teachers in,.....	5,308	Teachers in,.....	5,582
Pupils in,.....	206,974	Pupils in,.....	201,391

Perhaps the cause of consumption is to be found in a disproportionate development of the nervous system over the digestive and assimilative. We have only touched a very extensive subject. The foregoing is stated somewhat positively, because it could be written thus in fewer words and in less space. If we have given even a hint which will be of any use in the investigation of this subject, our satisfaction will be complete.

Consumption is very evenly distributed throughout the State. In the six southwestern counties along the shore of Lake Michigan, there was one death reported for every 660 inhabitants, and one death from this cause to every 7.5 deaths from all causes.

In the six southeastern counties constituting the east shore of the State, there was one death reported to every 748 inhabitants, and one death from this cause to 6.6 from all causes.

In the central portion of the State, taking the same counties used in the comparison of pneumonia, (see below,) the deaths reported from this disease was one for every 787 inhabitants, and one death from this cause to 6.7 deaths from all causes.

Typhoid Fever.—The whole number of deaths reported was 362. This is probably much too large. Many physicians, especially the young and ignorant, in order to magnify their own professional importance, magnify the importance of the diseases which they treat, and they are very prone to call any continued fever typhoid fever.

The disease prevailed throughout the year, but only two deaths are reported in May. In October there were 60 deaths, and in November 48, together making nearly 30 per cent. of the whole number reported. The percentage of males is 51.38; of females, 48.34. The greatest mortality was in Lenawee county, which reported 25 deaths; Jackson reported 22; Berrien, 18; Macomb, 17; Genesee and Oakland, 16 each. Twelve of the smaller counties report no deaths from this disease.

The percentage of deaths reported under five years is 12.82, which is probably too large. The disease is not peculiar to infancy, and from five to thirty years of age steadily increases in mortality. Why the mortality under five, should fall to 8.86 per cent. between the ages of five and ten years, is difficult to answer. The greatest mortality, 17.16 per cent., occurs between the ages of 20 and 30.

Pneumonia.—The whole number of deaths reported from this cause was 313, of which 60.38 per cent. were male, and 39.62 per cent. female. The difference is 20.76 per cent., which is very large.

One hundred and eighteen died under five years, a percentage of 37.70. From five to ten the percentage is 3.19; from 10 to 15 it is 2.88, from which age it slowly increases up to 15.02 per cent. between the ages of 60 and 70.

The percentage under five years is very large, but probably not larger than the average which will be shown by future reports.

The greatest mortality was in March, (19.49 per cent.,) next February, (15.97 per cent.,) April, (13.74 per cent.,) January, (11.18 per cent.,) December, (7.98 per cent.,) May, (6.39 per cent.,) and the least was in June, (1.91 per cent.)

The six southwestern counties, lying on Lake Michigan, viz: Berrien, Van Buren, Allegan, Ottawa, Muskegon and Oceana, in 1864, contained a population of 85,864. The number of deaths from pneumonia reported in these counties was 65, which is one death to every 1,321 inhabitants. The six southeastern counties, lying on the eastern shore, viz: Monroe, Wayne, (excluding Detroit,) Macomb, St. Clair, Sanilac and Huron, contained a population of 115,186. The number of deaths from pneumonia reported in these counties was 38, showing one death to every 3,031 inhabitants.

Comparing the western with the eastern shore, we find the mortality from this disease to be 2.29 times greater on the former than on the latter. The cause of this great difference cannot with certainty be accounted for. The influence of the prevailing western and northwestern winds from across Lake Michigan, may to some extent account for the disparity.

Comparing the ratio of deaths from pneumonia to deaths from all causes, the western shore shows one from pneumonia to 13 from all causes. The eastern shore shows one to 27 from all causes.

In the central portion of the State, a district consisting of twelve counties, constituting a range two wide, running up through the State from Hillsdale and Branch to Isabella and Mecosta, there was in 1864, a population of 187,199. In this district there was reported 87 deaths from pneumonia, and a mortality of 1,595 from all causes. This would give one death from pneumonia to every 2,152 inhabitants, and one death from this cause to 18 deaths from all causes—in both particulars very nearly an average between the two shores.

Dysentery.—The mortality from this disease was 258, or 4.12 per cent. of all causes. This is probably not more than the average, which will be shown hereafter. The disease is somewhat more fatal in the new counties than in the old. The greatest mortality was in Ionia and Jackson, being 20 in each.

Sixty-seven per cent. of the whole number of deaths occurred in August, September and October. Sixty-three and 57.100

per cent. of deaths occurred under 5 years of age, and 7.36 per cent. from 5 to 10.

Diarrhœa.—This disease shows a mortality of 136, and a percentage of all diseases of 2.17. Like Dysentery, it is peculiarly a fall disease, and shows even a greater mortality under 5 years of age, viz: 71.32 per cent. It is quite equally distributed over the State, though the new counties seem to suffer the most.

Croup.—One hundred and seventeen deaths are reported from this cause. This is a winter disease, 44.43 per cent. of all the cases occurring in that season.

The greatest number (23) occurred in January; the least (2) in June.

The percentage, under 5 years of age, stands next to whooping cough, viz: 94.87.

Diphtheria.—This comparatively modern disease shows a mortality of 110, a percentage of 1.76 to all causes. 15 deaths occurred in September, 13 in October, 13 in December, and 12 in March.

The percentage of deaths under 5 years of age is 70, from 5 to 10 years, 18.18.

Scarlatina.—Just 100 fatal cases were reported. Seventy-one of these occurred in the months of December, January, February and March. Only one case was reported in May. Sixty-three were reported under 5 years of age, and 30 between 5 and 10 years. A local epidemic appears to have prevailed in Genesee and Shiawassee. Genesee reports 26 cases, and Shiawassee 12.

Whooping Cough.—Eighty deaths from this cause are reported. The greatest mortality was in the months of March, September and May. The least, in November and December. The mortality under 5 years of age was 96.15. This disease appears to be strictly an infantile disease, no cases being reported over 10 years of age.

Measles.—Only twenty fatal cases of this disease were reported. Twenty-five per cent. of these were in March. No

cases were reported in September, October, November and December. Eighty per cent. were under 5 years of age, 5 per cent. between 5 and 10 years, 5 per cent. between 10 and 15, and 5 per cent. between 15 and 20 years.

This disease, as well as scarlatina, prevails in this State epidemically, and the average will undoubtedly be largely increased by future reports.

CAUSES OF DEATH.

Clinton,	131	85	66	15	6	5	12	11	16	15	12	5	12	6	16	....	47	7	3	8	15	9	12	10	11	8	1	....
Della,	12	7	5	3	1	....	....	1	2	1	....	....	....	2	....	2	....	4	....	1	....	2	1	1	2	1	....	....
Eaton,	145	76	69	7	6	5	8	7	17	18	13	18	14	15	4	....	40	5	3	9	15	10	8	21	8	18	5	3
Emmet,	16	8	8	....	1	....	1	....	1	3	....	4	1	1	4	....	9	1	....	2	2	....	....	....	....	1	1	....
Genesee,	250	126	124	14	10	15	17	27	34	21	17	24	24	25	22	....	97	22	9	10	25	19	10	19	18	16	6	4
Gr-d Travers, ...	23	15	13	1	1	....	3	3	1	6	4	5	1	1	2	....	5	....	4	5	3	....	6	1	3	....	....	1
Gratiot,	71	33	33	6	4	7	3	2	12	4	8	2	5	9	7	2	22	9	3	2	8	7	3	6	5	2	1	3
Hillsdale,	162	83	79	16	9	14	7	15	12	11	12	21	11	25	19	3	43	5	4	8	22	17	13	8	17	14	11	....
Houghton,	33	15	17	4	3	3	3	7	1	5	1	....	....	....	1	4	1	19	2	2	2	3	1	1	....	....	2	....
Huron,	53	23	25	7	2	2	3	6	1	4	6	6	3	4	9	....	27	3	3	1	5	4	4	2	2	1	....	1
Ingham,	140	67	69	9	19	8	6	8	14	10	9	6	13	12	13	13	34	6	1	7	16	12	14	10	11	10	5	14
Ionia,	170	85	82	3	21	11	8	11	12	19	15	24	7	9	15	13	5	53	5	5	9	21	11	7	12	15	11	7
Iosco,	9	5	4	....	....	1	....	....	1	....	1	1	1	1	2	1	3	....	....	....	2	1	1	....	....	1	....	1
Isabella,	38	24	14	1	4	2	....	3	8	5	3	....	5	3	3	1	16	2	1	....	5	....	2	4	2	4	....	2
Jackson,	217	1116	96	5	17	22	14	11	16	25	27	20	11	14	18	20	2	53	13	5	15	23	15	17	26	18	11	11
Kalamazoo,	182	94	87	1	18	6	15	12	12	22	10	17	10	23	19	17	1	55	9	13	5	19	16	15	14	16	11	2
Kent,	191	111	80	15	13	10	15	17	26	19	8	12	18	16	22	....	60	11	12	12	23	14	13	11	14	10	10	1
Keweenaw, (not returned.)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lapeer,	147	89	67	17	16	2	8	10	14	4	7	15	15	18	17	4	44	10	6	9	16	10	8	7	9	19	6	3
Leelanaw,	27	16	11	....	4	2	3	1	2	3	2	2	1	4	3	....	7	3	1	2	4	1	1	3	3	1	....	2
Leosawee,	270	148	123	2	13	21	16	11	21	25	29	15	23	16	25	43	2	63	18	4	9	25	14	18	37	23	23	11

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TABLE III.—DEATHS.—CONTINUED.

COUNTIES.	DEATHS.		MONTHS.												AGES.													
	Total.	SEX.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.	
Mackinac, (not re turn ed.)																												
Macomb.....	165	91	71	8	7	1	14	11	16	13	15	18	13	20	29	3	51	3	5	9	24	15	14	19	12	13	6	3
Manistee.....	63	41	22	16	3	4		3	4	3	4	6	4	2	9		17	10	1	3	9	6	1	4	2	2		8
Manitou, (not re turn ed.)																												
Marquette.....	45	32	13	5	6	5	4	4	1	3	2		1	4	10		25	1	1	3	7	3	1	3		1		
Mason.....	10	9	1				3		1	3	1				2		4			1	1	1			1			2
Mecosta.....	34	19	15	5		3	1	3	3	5	2	4	5	1	2		13		1	4	2	7	2		1	1	3	
Menominee.....	6	4	2	1					1	1	1	1	1				1			1	2	1						
Midland.....	40	19	20	1	5	1	6	7	1	5		1	2	2	3	6	23	1	1		1	1	1	1	1	2	1	2
Monroe.....	172	91	81	18	7	9	7	6	19	15	12	18	12	20	27	2	53	10	6	4	16	17	13	12	16	9	7	4
Montcalm.....	62	25	37	4	5	2	6	6	8	9	6	2	6	1	7		24	3	3	4	4	6	5	2	4	2	3	2
Muskegon.....	116	50	66	6	1	5	6	13	13	15	13	7	12	7	8		53	4	4	7	17	8	6	5	4	1	1	1
Newaygo.....	34	21	13	4	3	2	1	6	1	1	4	3	2	1	6		16		2	3	4	1	2	2		4		

CAUSES OF DEATH.

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Oakland,	222	120	100	2	27	10	11	18	19	17	12	25	15	24	24	17	3	55	12	6	10	26	18	19	17	25	23	11	7
Oceans,	76	40	86	..	4	3	3	7	9	6	7	8	11	9	10	8	3	36	5	4	4	11	5	4	2	1	1	1	1
Outonagon,	5	3	2	..	..	..	2	1	..	1	..	..	1	..	..	..	..	5	..	..	..	..	1	..	..	..	..	..	..
Ottawa,	236	116	120	..	21	14	23	10	22	34	22	23	27	10	11	17	2	117	22	5	12	16	12	14	13	10	7	1	7
Saginaw, (not re turn ed.)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sanilac,	76	31	45	..	9	6	2	2	9	9	7	6	4	3	7	11	1	37	3	3	4	5	7	7	1	1	3	5	..
Shiawassee,	123	73	50	..	9	7	5	6	7	8	10	12	12	12	13	14	8	31	7	7	8	13	6	10	13	13	8	3	4
St. Clair,	224	108	110	6	22	12	10	11	25	13	18	17	16	22	27	28	3	79	14	12	4	23	14	17	19	10	15	9	8
St. Joseph,	170	82	88	..	13	11	6	7	10	14	16	11	14	22	20	21	5	51	16	9	8	14	10	14	13	12	6	5	5
Tuscola,	68	40	28	..	14	3	4	4	7	10	4	2	2	4	5	6	3	21	7	5	2	8	3	5	5	4	3	..	5
Van Buren,	185	100	85	..	15	12	9	10	9	21	21	11	20	24	15	16	2	79	6	2	4	18	11	17	11	14	11	9	3
Washtenaw,	246	111	125	..	21	16	14	14	28	23	18	17	30	24	13	27	1	63	11	8	15	25	16	15	23	24	21	8	2
Wayne,	329	153	135	11	27	15	23	26	37	32	32	18	27	24	38	30	..	140	11	16	14	32	21	19	13	26	16	17	4

TABLE IV.—CAUSES OF
EXHIBITING by Month, by Age and by Sex, the Registered No. of Deaths

	DEATHS.				MONTHS.													
	SEX.																	
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.	
Totals,	3302	2399	49	6250	582	383	346	373	512	627	555	435	518	535	583	699	102	
Males, ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fem., ..	.....	3	..	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....
Males, ..	12	.....	.....	.....	1	.....	2	.....	.....	5	.....	3	1	.....	.....	.....	.....
Fem., ..	.....	6	..	18	1	.....	1	2	.....	.....	.....	.....	1	1	.....	.....	.....
Males, ..	22	.....	.....	.....	1	2	2	2	4	.....	4	3	1	.....	2	1	.....
Fem., ..	.....	17	..	39	.....	.....	1	.....	1	2	1	3	2	2	2	3	.....
Males, ..	5	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	1	.....	1	.....
Fem., ..	.....	4	..	9	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	2	.....
Males, ..	21	.....	.....	.....	1	4	4	2	2	2	2	.....	.....	2	1	1	.....
Fem., ..	.....	13	..	34	1	1	.....	2	.....	3	2	1	.....	1	1	1	.....
Males, ..	83	.....	.....	.....	6	7	5	3	9	16	8	9	3	11	4	7	.....
Fem., ..	.....	71	..	.....	4	3	6	9	5	6	11	4	4	8	6	5	.....
Unkn., ..	.....	.....	1	166	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Males, ..	16	.....	.....	.....	8	2	1	.....	1	.....	.....	.....	2	.....	1	1	.....
Fem., ..	.....	13	..	29	1	1	.....	.....	1	.....	2	.....	4	1	2	1	.....
Males, ..	8	.....	.....	.....	1	2	.....	.....	.....	.....	1	.....	.....	1	1	2	.....
Fem., ..	.....	3	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Unkn., ..	.....	.....	1	12	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males, ..	14	.....	.....	.....	.....	4	.....	.....	1	1	.....	3	.....	2	1	2	.....
Fem., ..	.....	26	..	40	1	5	1	1	3	.....	2	5	2	1	2	3	.....
Males, ..	169	.....	.....	.....	16	5	10	18	14	11	15	15	19	14	10	20	2
Fem., ..	.....	29	..	198	3	6	.....	1	3	1	.....	3	.....	4	4	4	.....
Males, ..	27	.....	.....	.....	1	2	2	7	.....	1	3	1	2	2	2	3	1
Fem., ..	.....	46	..	73	4	2	1	2	6	1	6	8	3	3	6	4	.....

DEATH.—ALPHABETICAL ARRANGEMENT.

from various Specified Causes, during the Year ending April 5, 1868.

CAUSE OF DEATH.	AGE.											
	Under 5 y's.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.
	2155	319	229	293	670	491	426	462	463	386	219	168
Abortion,												
“					2		1					
Abscess,	2		1	1	7			1				
“						2	4					
Apoplexy,						1	3	6	3	6	2	1
“	1			1		2	4	3	3	3	1	
Asthma,	1					1	1			2		
“								2	1	1		
Bowels, Disease of,	18		2		1	1	1	2			1	
“	8				1	1		1	1	1		
Brain, Disease of,	56	7	5	4	7	2	2	3	1	2		
“	25	7	9	4	7	3	2	2	2			
“	1											
Brain, Softening of,	3				3	1	1	1	1			6
“	9	2						1				1
Bronchitis,	3			1		2	1		1			
“	1								1			1
“	1											
Burns and Scalds,	7	2		1		1	2	1				
“	13	1	3	4	2	1			1	1		
Casualty,	20	8	12	19	35	26	20	9	9	3	3	5
“	9	4	3		3	2	4	3		1		
Cancer,	3		1		1	1	4	9	8	2		
“	1	1	1		3	6	13	10	5	4		

TABLE IV.—CAUSES OF DEATH.

	DEATHS.				MONTHS.												
	SEX.																
	Males.	Females.	Unknown.	Totals.	April.	May.	June.	July.	August.	Sept.	October.	November.	December.	January.	February.	March.	Unknown.
Males, ..	46	....	..	....	8	3	4	4	3	2	5	3	2	2	2	7	...
Fem., ..	....	87	..	82	3	4	....	2	6	3	1	3	5	6	2	2	...
Males, ..	1	....	..	....	....	....	....	....	....	....	....	....	....	....	1	....	...
Fem., ..	....	2	..	3	....	....	....	....	....	....	....	....	1	....	1	....	...
Males, ..	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Fem., ..	....	82	..	82	9	4	8	4	4	7	6	6	7	9	7	10	2
Males, ..	9	....	..	....	....	1	....	1	2	2	....	1	....	2	....	....	...
Fem., ..	....	1	..	10	1	....	....	....	....	....	....	....	....	....	....	....	...
Males, ..	38	....	..	....	....	....	....	3	3	18	5	....	....	2	....	1	1
Fem., ..	....	23	..	....	....	....	2	1	6	7	1	1	1	1	....	....	...
Unkn., ..	....	....	2	55	....	....	....	....	1	1	....	....	....	....	....	....	...
Males, ..	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Fem., ..	....	1	..	1	....	....	....	....	....	1	....	....	....	....	....	....	...
Males, ..	21	....	..	....	2	....	....	1	2	3	1	2	2	2	3	3	...
Fem., ..	....	20	..	41	....	....	2	1	3	1	6	1	2	....	1	2	1
Males, ..	464	....	..	....	48	37	24	34	33	33	21	36	44	45	43	53	3
Fem., ..	....	488	..	952	48	34	50	30	31	39	49	34	33	33	46	55	5
Males, ..	21	....	..	....	1	3	1	1	5	1	2	....	1	2	1	3	...
Fem., ..	....	16	..	37	3	....	....	1	2	....	....	2	....	2	2	4	..
Males, ..	64	....	..	....	6	1	3	3	3	3	3	3	10	12	9	7	1
Fem., ..	....	53	..	117	6	1	3	5	6	3	2	2	6	11	4	4	...
Males, ..	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	...
Fem., ..	....	1	..	1	....	....	....	....	....	....	....	1	....	....	....	....	...
Males, ..	29	....	..	....	2	2	3	2	3	....	1	3	....	3	3	5	...
Fem., ..	....	27	..	....	2	....	2	5	1	2	6	3	....	1	3	1	...
Unkn., ..	....	....	1	57	....	....	....	....	....	....	....	....	....	....	1	....	...
Males, ..	3	....	..	....	....	....	....	....	....	....	....	....	....	....	2	1	...
Fem., ..	....	....	..	3	....	....	....	....	....	....	....	....	....	....	....	....	...
Males, ..	63	....	..	....	5	2	1	4	9	20	6	6	5	....	2	6	2
Fem., ..	....	67	..	135	....	3	1	3	16	19	10	2	2	5	2	4	...

—ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSE OF DEATH.	AGE.										
	Under 5 y's	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.
Cephalitis,	24	5	3	1	5	2	1	....	2	2	....
"	17	3	7	2	2	3	....	2	1	....	....
Chicken Pox,	1	....	....	....	....	....	....	....	....	....	....
" "	2	....	....	....	....	....	....	....	....	....	....
Child-birth, .....	....	....	....	....	....	....	....	....	....	....	....
" .....	....	....	....	9	35	32	5	....	....	....	1
Cholera morbus,	1	....	....	....	2	1	....	2	1	2	....
" " .....	....	....	....	....	....	....	....	....	1	....	....
Cholera Infantum,	33	....	....	....	....	....	....	....	....	....	....
" "	20	....	....	....	....	....	....	....	....	....	....
" "	2	....	....	....	....	....	....	....	....	....	....
Chorea, .....	....	....	....	....	....	....	....	....	....	....	....
" .....	....	....	....	....	....	....	1	....	....	....	....
Congestive Oedema,	3	3	1	3	1	1	1	2	4	2	....
" "	9	1	2	....	4	....	1	....	1	1	1
Consumption,	34	9	6	23	37	73	60	64	51	40	5
"	32	6	17	44	152	77	59	36	25	17	19
Convulsions,	18	....	....	....	2	....	....	1	....	....	....
"	9	1	2	....	4	....	....	....	....	....	....
Croup,	63	....	....	....	....	1	....	....	....	....	....
"	43	4	....	....	1	....	....	....	....	....	....
Cyanosis, .....	....	....	....	....	....	....	....	....	....	....	....
" .....	....	....	....	....	....	....	....	....	....	....	1
Debility,	9	....	....	....	1	....	....	2	3	4	4
"	14	....	1	....	1	1	....	3	3	1	3
" .....	....	....	....	....	....	....	....	....	....	....	1
Delirium Tremens, .....	....	....	....	....	....	1	1	....	....	....	1
" "
Diarrhoea,	51	4	....	....	2	2	....	1	4	....	3
"	45	3	....	1	1	2	2	2	4	5	1

TABLE IV.—CAUSES OF DEATH.

	DEATHS.				MONTHS.												
	SEX.																
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Unkn.,	....	1	136	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Males, ..	15	....	....	2	....	1	1	....	2	3	2	1	1	2	....	....	....
Fem., ..	2	....	17	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Males, ..	61	....	....	5	6	2	1	3	9	8	6	4	4	6	6	1	....
Fem., ..	49	....	110	4	2	1	2	5	6	5	4	9	....	3	6	2	....
Males, ..	96	....	....	3	9	6	7	13	7	6	3	6	9	7	19	1	....
Fem., ..	113	....	239	12	11	14	7	6	8	8	8	8	10	10	9	2	....
Males, ..	59	....	....	5	5	9	10	8	2	5	3	3	2	....	6	1	....
Fem., ..	4	....	63	1	....	....	....	....	....	1	1	....	....	....	....	1	....
Males, ..	120	....	....	1	....	5	5	23	35	19	11	2	2	7	3	2	....
Fem., ..	134	....	....	2	11	2	9	23	36	23	13	3	2	1	1	3	....
Unkn.,	....	4	253	....	....	....	....	....	2	2	....	....	....	....	....	....	....
Males, ..	10	....	....	....	1	....	1	....	3	1	....	1	2	....	1	....	....
Fem., ..	8	....	13	2	1	1	1	....	....	....	....	....	1	1	....	1	....
Males, ..	63	....	....	3	2	11	1	3	6	9	6	4	6	4	3	....	....
Fem., ..	40	....	103	5	4	2	3	3	4	1	3	2	4	2	6	1	....
Males, ..	10	....	....	....	2	....	....	1	2	1	....	....	....	2	2	....	....
Fem., ..	8	....	13	1	1	....	....	....	1	1	1	....	1	1	1	....	....
Males, ..	20	....	....	1	2	2	1	2	1	3	1	....	1	3	3	....	....
Fem., ..	22	....	42	2	....	1	1	3	....	1	....	2	4	2	6	....	....
Males, ..	6	....	....	2	....	....	....	1	1	....	....	....	2	....	....	....	....
Fem., ..	2	....	8	....	....	....	....	....	....	....	....	....	1	....	1	....	....
Males, ..	81	....	....	5	6	....	....	7	17	9	8	6	5	7	8	3	....
Fem., ..	80	....	....	3	5	3	5	5	9	10	5	10	5	9	10	1	....
Unkn.,	....	1	162	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Males, ..	8	....	....	....	....	....	....	1	1	2	2	1	....	....	....	1	....
Fem., ..	6	....	14	....	1	....	1	....	2	....	1	....	1	....	....	....	....
Males, ..	22	....	....	....	2	2	2	3	4	1	4	2	2	....	....	....	....
Fem., ..	8	....	30	....	1	2	....	1	1	....	1	....	....	....	2	....	....
Males, ..	136	....	....	11	3	7	9	13	22	23	24	18	21	16	13	1	....

—ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSE OF DEATH.	AGE.										
	Over 5 y's	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over. Unknown.
Diarrhoea,.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diabetes,.....	.....	.....	.....	2	1	2	1	3	4	2	.....
“ .....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Diphtheria,.....	45	11	3	.....	1	.....	.....	1	.....	.....	.....
“	32	9	1	1	5	1	.....	.....	.....	.....	.....
Dropsy,.....	8	13	3	2	5	6	13	10	14	16	4
“	12	3	5	5	10	11	9	17	22	13	3
Drowned,.....	8	6	11	7	8	4	5	4	.....	.....	6
“	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Dysentery,.....	79	8	3	3	4	3	3	3	7	3	1
“	84	11	9	2	2	4	6	3	3	1	9
“	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Dyspepsia,.....	4	1	.....	.....	.....	.....	.....	2	2	1	.....
“	3	.....	1	.....	.....	.....	1	2	.....	.....	.....
Enteritis,.....	26	1	3	4	6	2	3	5	4	1	7
“	16	4	1	4	5	2	2	3	1	2	.....
Epilepsy,.....	.....	.....	.....	.....	4	1	2	.....	1	1	.....
“	2	.....	2	.....	2	1	.....	1	.....	.....	.....
Erysipelas,.....	11	1	.....	1	1	1	1	2	.....	.....	2
“	7	1	1	.....	3	2	2	3	.....	3	.....
Exhaustion,.....	.....	.....	.....	.....	2	.....	2	.....	2	.....	.....
“ .....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....
Fever,.....	38	6	7	1	5	2	6	4	4	5	3
“	35	3	3	5	10	6	2	5	3	4	2
“	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fever, Intermit.,.	1	.....	.....	1	1	1	2	.....	.....	.....	2
“	1	3	1	.....	.....	.....	.....	1	.....	.....	.....
“ Remittent,.....	4	.....	1	1	2	2	5	1	3	1	2
“	2	.....	.....	2	1	1	.....	1	.....	.....	1
“ Typhoid,.....	26	12	17	25	36	10	17	19	14	2	6

TABLE IV.—CAUSES OF DEATH,

	DEATHS.				MONTHS.												
	SEX.																
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Fem.,	175	..	....	11	6	6	10	8	20	32	24	19	15	13	11	1	
Unkn.,	1	362	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Males, ..	4	..	....	....	1	....	....	1	....	1	1	....	....	....	....	....	....
Fem.,	4	..	8	....	....	....	....	1	1	....	....	....	....	1	1	....	....
Males, ..	43	....	....	7	3	....	2	2	7	8	3	5	6	4	6	1	
Fem.,	47	..	....	6	4	5	1	2	4	1	1	9	2	6	5	1	
Unkn.,	2	98	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Males, ..	4	....	....	....	....	....	1	....	....	2	1	....	....	....	....	....	....
Fem., .....	....	..	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	2	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
Fem.,	5	..	7	....	....	....	....	1	1	1	....	1	....	....	1	....	....
Males, ..	11	....	....	....	3	....	....	2	1	1	1	1	....	1	1	....	....
Fem., .....	....	..	11	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	104	....	....	14	6	13	7	7	3	8	11	2	7	14	5	....	....
Fem.,	102	..	206	9	7	8	5	9	5	7	10	1	10	13	11	....	....
Males, ..	5	....	....	....	1	....	1	....	1	....	....	1	1	....	....	....	....
Fem.,	8	..	13	....	....	1	....	....	2	....	1	....	2	2	....	....	....
Males, ..	2	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....
Fem., .....	....	..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	2	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....
Fem.,	1	..	3	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Males, ..	10	....	....	....	1	1	....	2	2	2	....	....	....	1	1	....	....
Fem., .....	....	..	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	3	....	....	....	....	....	....	....	....	1	2	....	....	....	....	....	....
Fem.,	2	..	5	1	....	....	....	....	....	....	....	1	....	....	....	....	....
Males, ..	9	....	....	....	....	....	1	2	2	1	....	1	....	2	....	....	....
Fem.,	8	..	17	....	1	....	....	....	1	....	1	4	....	....	1	....	....
Males, ..	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Fem.,	1	..	2	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Males, ..	20	....	....	2	....	1	4	1	3	2	1	2	2	1	1	....	....

—ALPHABETICAL ARRANGEMENT,—CONTINUED.

[illegible]

TABLE IV.—CAUSES OF DEATH,

	DEATHS.				MONTHS.												
	Sex.																
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Fem., ..	12	12	12	3	1	....	....	1	2	....	1	....	1	2	....	1	....
Males, ..	64	....	....	13	2	1	5	6	6	4	3	1	4	8	9	2	....
Fem., ..	61	....	....	6	3	1	2	5	6	3	4	5	5	7	14	....	....
Unkn., ..	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	1	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	4	....	....	....	....	....	....	....	2	1	....	....	....	1	....	....	....
Fem., ..	5	....	....	2	....	....	....	....	1	1	....	....	....	1	....	....	....
Males, ..	5	....	....	1	....	....	....	....	....	1	1	1	1	1	....	....	....
Fem., ..	....	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	5	....	....	1	....	....	....	....	1	1	1	....	1	....	....	....	....
Fem., ..	1	....	6	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Males, ..	15	....	....	....	....	1	....	1	3	3	1	1	1	1	2	2	....
Fem., ..	1	....	6	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Males, ..	36	....	....	2	1	1	1	4	4	2	1	....	6	2	9	3	....
Fem., ..	27	....	3	1	....	2	1	....	3	4	4	....	1	5	5	1	....
Males, ..	53	....	....	5	2	2	4	5	4	3	5	5	5	5	11	2	....
Fem., ..	43	....	6	5	3	5	4	1	....	1	4	4	3	7	8	3	....
Males, ..	7	....	....	1	....	1	1	....	....	....	....	....	....	2	....	2	....
Fem., ..	13	....	0	1	1	2	....	1	....	....	....	....	....	2	3	3	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	17	....	7	....	1	2	2	1	....	....	2	....	3	3	3	....	....
Males, ..	3	....	....	....	1	....	1	....	....	....	....	1	....	....	....	....	....
Fem., ..	2	....	5	....	....	....	....	1	....	....	....	....	....	....	....	1	....
Males, ..	7	....	....	1	1	....	....	....	1	1	....	1	1	1	....	....	....
Fem., ..	1	....	8	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	2	....	2	....	1	1	....	....	....	....	....	....	....	....	....	....	....
Males, ..	8	....	....	1	....	1	....	1	2	1	....	....	....	....	....	2	....
Fem., ..	9	....	7	....	1	1	....	2	3	1	....	....	....	....	....	....	1

—ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSE OF DEATH.	AGE.										
	Under 5 y's.	5 to 10.	10 to 15	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.
Infantile,	12										
Inflammation,	34	1	4	2	4	3	3	6	2	2	1
“	34	3	2	1	7	2	1	3	3	4	1
“	1										
Influenza,											
“	1										
Insanity,					1		1		1	1	
“							2	1	1	1	
Intemperance,							1	4			
“											
Jaundice,	1							1	2	1	
“											1
Kidneys, Dis. of, ..				2	5	2	1	2	3	1	1
“ “ ..					1						
Liver, Disease of, ..	4	2			3	5	6	5	6	4	1
“ “ ..	2	1	2	2	3	2	4	4	2	3	2
Lungs, Disease of, ..	27	1	3		4	3	4	5	8	2	1
“ “ ..	13	2	1	2	4	7	2	2	7	6	1
Mecales,	5	1	1								
“	11			1			1				
Metris, (Puer. F.), ..											
“ “ ..				2	6	7	1				1
Mortification,						1	1	1			
“	1								1		
Murder,	1		1		1	1		2	1		
“	1										
Neuralgia,											
“							1				1
Noma, (Canker,). ..	7										1
“ “ ..	7				1			1			

TABLE IV.—CAUSES OF DEATH.

	DEATHS.				MONTHS.													
	SEX.																	
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.	
Males, ..	120	....	..	....	13	9	6	7	6	8	6	10	17	14	10	13	1
Fem., ..	....	118	..	238	8	12	11	4	2	5	5	8	10	14	17	19	3
Males, ..	48	....	..	....	3	3	1	3	3	3	3	1	5	4	5	12	2
Fem., ..	....	32	..	80	1	1	....	4	1	5	5	....	2	7	4	2	...
Males, ..	3	....	..	....	....	....	....	....	1	1	....	....	....	1	....	....	...
Fem., ..	....	6	..	9	1	1	....	....	....	....	1	....	....	....	3	....	...
Males, ..	1	....	..	....	....	....	....	1	....	....	....	....	....	....	....	....	...
Fem., ..	....	7	..	8	....	1	....	....	....	....	....	2	....	1	....	3	...
Males, ..	180	....	..	....	25	16	8	8	6	7	6	9	14	19	37	35	4
Fem., ..	....	124	..	313	18	4	8	6	4	4	10	9	11	16	13	26	...
Males, ..	10	....	..	....	1	2	....	1	..	....	....	1	1	1	2	1	...
Fem., ..	....	5	..	15	....	1	1	....	1	2	....	..	....	....	....	....	...
Males, ..	1	....	..	....	....	1	....	....	....	....	....	....	....	....	....	....	...
Fem., ..	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	...
Males, ..	7	....	..	....	1	....	1	....	....	....	2	....	1	....	1	1	...
Fem., ..	....	3	..	10	....	1	....	....	....	1	1	....	....	....	....	....	...
Males, ..	13	....	..	....	2	1	2	....	....	....	....	1	....	1	2	4	...
Fem., ..	....	10	..	23	2	....	1	2	....	..	1	....	1	2	....	1	...
Males, ..	54	....	..	....	5	1	....	2	2	1	3	3	13	6	12	5	...
Fem., ..	....	46	..	100	2	....	3	....	2	1	2	1	11	11	4	8	1
Males, ..	17	....	..	....	1	2	....	1	1	2	1	4	1	1	....	3	...
Fem., ..	....	13	..	30	....	2	2	....	....	1	2	2	....	2	2	....	...
Males, ..	4	....	..	....	....	....	....	....	....	....	....	....	....	3	....	1	...
Fem., ..	....	3	..	7	....	....	1	....	....	....	....	....	2	....	....	....	...
Males, ..	21	....	..	....	2	4	1	1	2	1	2	1	2	....	2	2	1
Fem., ..	....	14	..	25	....	2	....	2	2	....	....	1	3	....	1	1	2
Males, ..	1	....	..	....	....	....	....	....	....	....	1	....	....	....	....	....	...
Fem., ..	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	...
Males, ..	3	....	..	....	....	....	....	....	1	1	....	....	1	....	....	....	...
Fem., ..	....	3	..	6	....	....	1	....	....	....	1	....	....	....	1	....	...

ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSE OF DEATH.	AGE.										
	Over 5 y's.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.
Old Age,.....	.....	.....	.....	.....	.....	.....	.....	.....	4	88	77
" .....	.....	.....	.....	.....	.....	.....	.....	3	8	87	64
Paralysis,.....	.....	.....	.....	.....	1	.....	3	7	19	15	2
"	1	1	.....	.....	.....	2	1	2	11	8	6
Peritonitis,.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....
"	1	.....	.....	2	1	.....	.....	1	.....	.....	1
Pleurisy,.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
" .....	.....	1	.....	.....	1	1	1	.....	.....	3	.....
Pneumonia,.....	70	7	5	4	13	13	9	19	29	17	3
"	48	3	4	4	7	11	8	10	18	7	3
Poison,.....	2	.....	.....	2	.....	1	2	1	.....	.....	2
"	1	.....	.....	1	1	.....	.....	.....	2	.....	.....
Pur. and Scurvey,.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
"
R. R. Accident,...	.....	.....	.....	1	2	.....	2	1	.....	.....	1
" .....	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....
Rheumatism,.....	.....	.....	3	.....	1	2	2	.....	1	2	2
"	1	1	1	.....	1	1	1	3	1	.....	.....
Scarlatina,.....	36	16	.....	.....	1	1	.....	.....	.....	.....	.....
"	27	14	3	1	.....	.....	.....	1	.....	.....	.....
Scrofula,.....	10	.....	.....	1	.....	.....	4	.....	2	.....	.....
"	5	.....	1	.....	2	1	1	.....	2	1	.....
Small Pox,.....	2	.....	.....	1	1	.....	.....	.....	.....	.....	.....
" .....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....
Spine, Disease of,	8	3	1	1	2	3	.....	1	1	1	.....
"	5	1	.....	2	1	2	1	.....	2	.....	.....
Splenitis,.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
"
Stomach, Dis. of,	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
" .....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....

TABLE IV.—CAUSES OF DEATH,

	DEATHS.				MONTHS.												
	SEX.			Totals.													
	Males.	Females.	Unknown.		April.	May.	June.	July.	August.	Sep.	October.	November.	December.	January.	February.	March.	Unknown.
Males, ..	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Fem., ..	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	18	....	....	....	1	2	1	....	3	3	3	2	1	....	1	1	....
Fem., ..	....	5	23	1	....	....	....	....	....	....	....	1	2	....	1	....	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Males, ..	11	....	....	....	1	1	2	4	1	....	1	1	....	1	....	....	....
Fem., ..	....	9	....	....	....	....	....	3	....	2	1	1	....	2	....	....	....
Unkn., ..	....	1	21	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Males, ..	4	....	....	....	1	....	....	....	....	1	....	1	1	....	....	....	....
Fem., ..	....	7	11	2	....	....	....	....	....	1	1	1	1	....	....	....	....
Males, ..	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....
Fem., ..	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Males, ..	9	....	....	....	1	....	....	....	1	....	1	3	....	1	2	....	....
Fem., ..	....	11	20	....	1	1	....	1	3	1	2	....	1	1	....	....	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	4	4	1	....	....	....	....	....	....	....	....	1	....	2	....	....	....
Males, ..	5	....	....	....	1	....	1	1	....	1	....	....	1	....	....	....	....
Fem., ..	1	6	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Males, ..	395	....	....	41	19	17	24	31	37	37	36	36	32	32	44	9	....
Fem., ..	....	340	....	24	16	23	25	33	30	20	22	28	20	33	39	21	....
Unkn., ..	....	30	765	....	2	3	1	1	2	1	1	4	2	2	2	9	....
Males, ..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fem., ..	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Males, ..	38	....	....	4	5	2	2	2	5	4	1	....	3	2	6	2	....
Fem., ..	....	41	....	4	5	5	1	7	7	2	....	1	....	1	8	....	....
Unkn., ..	....	1	78	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Males, ..	6	....	....	....	....	....	1	....	2	....	....	1	....	....	2	....	....
Fem., ..	4	10	1	1	....	....	....	....	....	1	1	....	....	....	....	....	....

—ALPHABETICAL ARRANGEMENT.—CONTINUED.

[illegible]

TABLE V.—CAUSES OF DEATH.—CLASSIFIED ARRANGEMENT.
EXHIBITING by Counties, the Registered Number of Deaths from various Specified Causes, — Statistically Classified, (Still-Births included,) during the Year ending April 5, 1868.

CAUSES OF DEATH.	STATE.	Allegh.	Alpena.	Antrim.
All Causes,.....	6,371	147	4	23
Specified Causes,.....	5,351	135	4	18
CLASSES.				
I.—Zymotic Diseases,.....	1,636	35	2	2
II.—Constitutional Diseases,.....	1,301	36	.....	4
III.—Local Diseases,.....	1,554	42	1	7
IV.—Developmental Diseases,.....	477	11	.....	5
V.—Violent Deaths,.....	383	11	1	.....
ORDERS.				
I.—1. Miasmatic Diseases,.....	1,412	35	2	2
2. Enthetic Diseases,.....	2	.....	.....	.....
3. Dietic Diseases,.....	10	.....	.....	.....
4. Parasitic Diseases,.....	12	.....	.....	.....
II.—1. Diathetic Diseases,.....	305	5	.....	2
2. Tubercular Diseases,.....	996	31	.....	2
III.—1. Diseases of Nervous System,.....	522	10	1	3
2. " Organs of Circulation,.....	207	2	.....	1
3. " Respiratory Organs,.....	471	24	.....	1
4. " Digestive Organs,.....	240	3	.....	2
5. " Urinary Organs,.....	43	1	.....	.....
6. " Generative Organs,.....	4	.....	.....	.....
7. " Organs of Locomotion,.....	41	.....	.....	.....
8. " Integumentary System,.....	26	2	.....	.....
IV.—1. Developmental Diseases of Children,...	30	.....	.....	.....
2. " " Adults,.....	91	5	.....	.....
3. " " Old People, ..	239	6	.....	4
4. Diseases of Nutrition,.....	67	.....	.....	1
V.—1. Accident or Negligence,.....	352	11	1
2. Homicide,.....	11
3. Suicide,.....	20
Causes not Specified,.....	920	12	4

CAUSES OF DEATH.

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Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Cheboygan.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Grand Traverse.
143	71	210	167	259	122	4	131	12	145	16	250	23
116	42	176	148	225	102	4	120	11	125	9	225	23
37	24	54	39	49	24	.....	37	2	43	1	97	7
32	8	32	42	54	32	2	24	5	31	2	57	6
29	8	67	46	87	36	.....	45	2	36	3	43	10
6	.....	7	13	26	4	1	3	.....	10	2	15	1
12	2	16	8	9	6	1	11	2	5	1	3	4
36	22	53	39	43	23	.....	37	2	43	1	97	7
.....
1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
6	1	7	8	13	9	.....	4	1	13	.....	11	2
26	7	25	34	41	23	2	20	4	13	2	46	4
7	1	30	20	26	10	.....	9	1	14	.....	13	1
4	1	3	3	13	1	.....	14	.....	5	1	5	1
10	2	20	8	24	19	.....	11	.....	10	1	3	2
5	2	9	11	13	6	.....	10	1	7	.....	11	4
2	2	1	1	3	.....	.....	1	.....	.....	.....	1	.....
.....
.....	.....	1	2	1	.....	.....	.....	.....	.....	1	4	1
1	.....	3	1	2	.....	.....	.....	.....	.....	.....	1	1
.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....
2	.....	4	5	3	1	.....	.....	.....	1	1	5	1
3	.....	1	7	16	3	.....	3	.....	8	1	9	.....
1	.....	2	1	5	.....	1	.....	.....	1	.....	.....	.....
12	2	16	6	6	5	1	9	2	5	1	3	4
.....	.....	.....	1	.....	1	.....	2	.....	.....	.....	.....	.....
.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....
27	29	34	19	34	20	.....	11	1	20	7	25	.....

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.
71	162	33	53	140	174	9	38	217	182	199	147
60	143	25	45	116	144	8	33	194	161	170	126
28	30	10	9	30	60	1	25	63	37	40	42
14	35	3	7	32	35	2	3	44	32	50	27
10	56	4	19	33	37	3	3	59	68	49	33
3	16	5	1	6	15	1	1	12	21	21	16
5	6	3	9	15	7	1	1	16	8	10	8
25	30	9	9	29	50	1	25	63	37	39	40
.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
4	7	1	2	10	6	.....	.....	12	5	14	9
10	28	2	5	22	29	2	3	32	27	36	18
4	17	.....	6	10	12	.....	1	17	22	16	9
1	10	.....	2	2	4	.....	2	12	11	6	3
5	17	2	6	15	14	2	.....	19	15	12	15
.....	6	1	3	3	2	1	.....	7	11	12	5
.....	3	1	1	.....	.....	.....	.....	.....	1	1	.....
.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....
.....	3	.....	1	.....	3	.....	.....	3	1	1	1
.....	.....	.....	.....	1	2	.....	.....	.....	2	1	.....
.....	1	1	.....	2	6	.....	.....	.....	.....	8	.....
2	3	1	1	1	.....	1	.....	2	1	6	4
1	10	1	.....	3	8	.....	1	5	10	7	10
.....	2	2	.....	.....	1	.....	.....	5	10	.....	2
4	4	3	9	13	6	1	1	13	7	9	8
.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....
1	2	.....	.....	1	1	.....	.....	3	.....	1	.....
11	19	3	3	24	30	1	5	23	21	29	2

Leclaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Muskegon.
27	271	108	167	63	45	19	34	6	40	173	62	116
15	232	89	147	54	41	9	23	6	28	153	53	104
3	75	20	24	20	4	4	3	1	12	42	16	49
6	45	24	51	14	9	1	6	2	5	33	16	13
8	77	24	36	6	14	2	8	1	7	51	14	16
2	16	7	17	2	6	.....	3	1	4	14	4	13
7	13	4	7	12	8	2	3	1	.....	13	3	8
2	75	18	34	20	4	4	3	1	11	41	16	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
.....
8	9	7	16	2	.....	.....	.....	.....	.....	4	6	4
3	36	17	35	12	9	1	6	2	5	29	10	9
2	26	10	20	2	4	1	2	.....	5	25	5	7
1	12	5	2	1	.....	.....	2	1	.....	8	2	2
1	16	14	8	1	7	1	2	.....	2	14	3	2
3	8	2	5	2	2	.....	1	.....	.....	2	2	3
.....	11	2	.....	.....	1	.....	.....	.....	.....	.....	1	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	4	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	.....	.....	1	.....	.....	.....	1	.....	.....	2	.....	1
1	4	5	5	.....	6	.....	.....	.....	.....	2	1	6
1	2	.....	3	1	.....	.....	.....	1	.....	2	.....	1
.....	10	2	8	1	.....	.....	2	.....	2	9	2	.....
.....	.....	.....	1	.....	.....	.....	1	.....	2	1	1	11
7	16	4	7	12	8	2	3	1	.....	13	3	8
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
2	39	14	20	9	4	1	11	.....	12	20	9	12

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
34	222	76	5	238	76	123	225	171	68	185	246	329
25	185	67	5	189	68	107	192	146	60	171	210	258
5	54	24	1	73	25	46	55	46	24	59	44	50
8	54	16	1	44	18	27	44	40	17	40	60	56
8	56	15	1	43	15	22	54	42	11	47	60	68
2	14	5	1	10	6	6	24	10	2	16	29	36
2	7	7	1	10	4	6	15	8	6	9	17	18
3	53	24	1	73	24	46	55	46	24	57	44	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
2	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	18	8	.....	10	6	7	15	10	2	6	16	9
8	36	13	1	34	12	20	29	30	15	34	44	47
2	21	5	1	15	2	10	16	9	3	11	20	33
1	8	.....	.....	6	.....	.....	7	3	.....	8	12	14
3	29	4	.....	16	7	10	15	16	5	21	14	7
1	5	5	.....	5	3	1	15	11	2	5	10	12
1	.....	.....	.....	.....	1	.....	1	1	.....	2	2	.....
.....
.....	1	1	.....	1	2	1	.....	2	1	.....	.....	1
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1
.....	1	1	1	2	.....	.....	4	3	.....	2	2	13
2	2	2	.....	2	3	.....	4	1	2	1	8	3
.....	9	2	.....	4	3	5	15	6	.....	10	17	15
.....	2	.....	.....	2	.....	1	1	.....	.....	3	2	5
2	6	7	1	10	3	6	15	7	6	8	16	15
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	2	2
9	37	9	.....	58	8	16	33	25	8	14	36	71

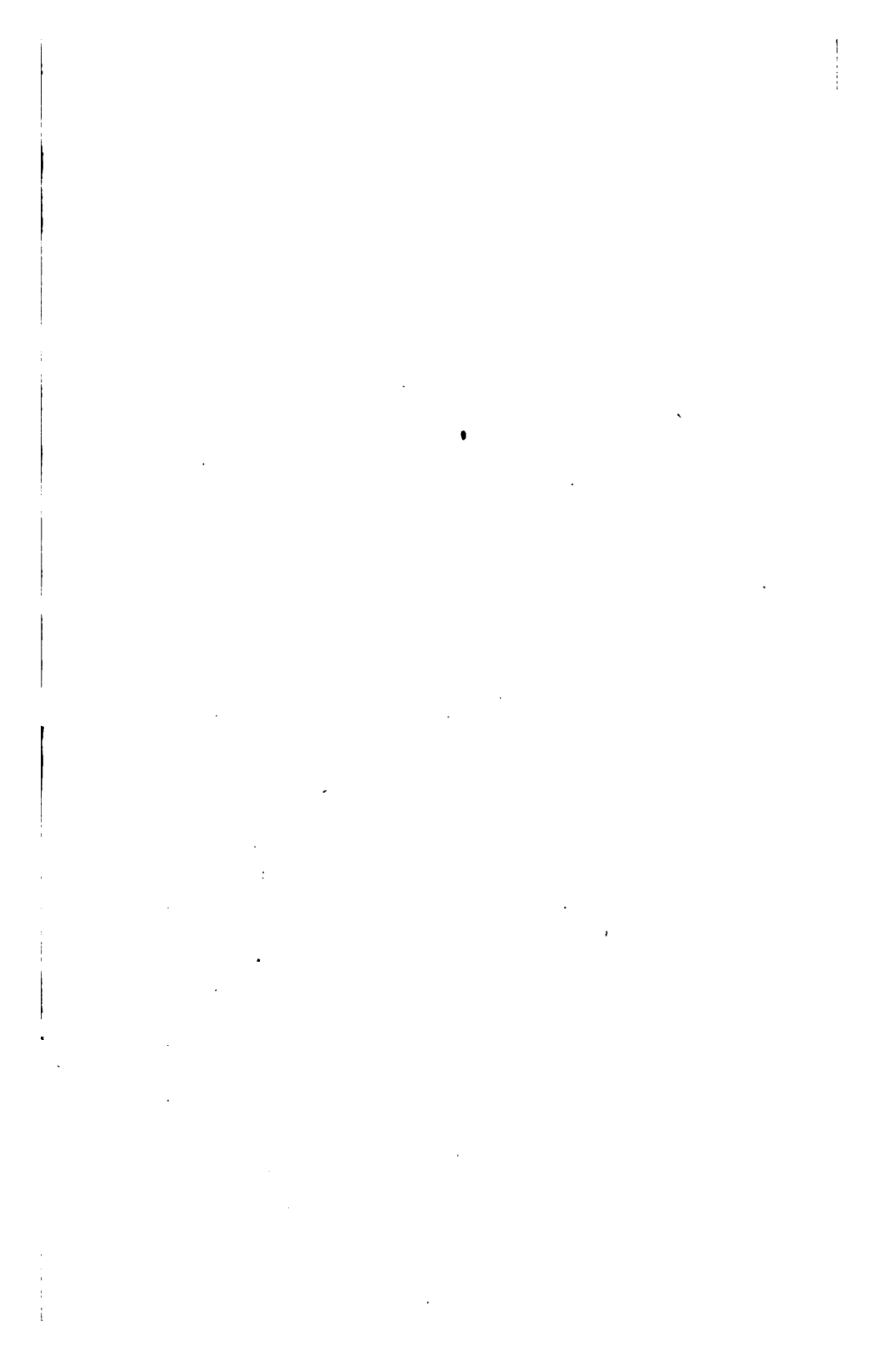


TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

DISEASES.	STATE.	Alleghen.	Alpena.	Antrim.
I.—1. Miasmatic.				
Totals,	1,612	85	2	2
1. Small Pox, (a),	10	.....	.....	.....
2. Measles,	20	1	.....	.....
3. Scarlatina,	103	.....	.....	.....
4. Diphtheria,	117	.....	.....	.....
5. Quinsy, .....	.....	.....	.....	.....
6. Croup,	117	3	.....	.....
7. Whooping Cough,	79	2	.....	1
8. Typhus, (b),	369	6	1	.....
9. Erysipelas,	49	.....	.....	.....
10. Metria, (Puerperal Fever,)	17	.....	.....	.....
11. Dysentery,	251	6	.....	1
12. Diarrhoea,	137	2	.....	.....
13. Cholera Infantum,	55	2	.....	.....
14. Cholera Morbus,	10	.....	.....	.....
15. Ague, (c),	52	4	.....	.....
16. Remittent Fever, (d),	213	8	1	.....
17. Rheumatism,	23	1	.....	.....
I.—2. ENTHETIC.				
Totals,	2	.....	.....	.....
1. Syphilis,	1	.....	.....	.....
2. Stricture of Urethra,	1	.....	.....	.....
I.—3. Dietic,				
Totals,	10	.....	.....	.....
1. Purpura and Scurvy,	1	.....	.....	.....
2. Delirium Tremens }	3	.....	.....	.....
3. Intemperance, } Alcoholism,	6
I.—4. PARASITIC.				
Totals,	12
1. Thrash,	2
2. Worms,	10

CAUSES OF DEATH.

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[illegible]

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

[illegible]

TABLE V.—CAUSES OF DEATH,--CLASSIFIED ARRANGEMENT,--CONTINUED.

[illegible]

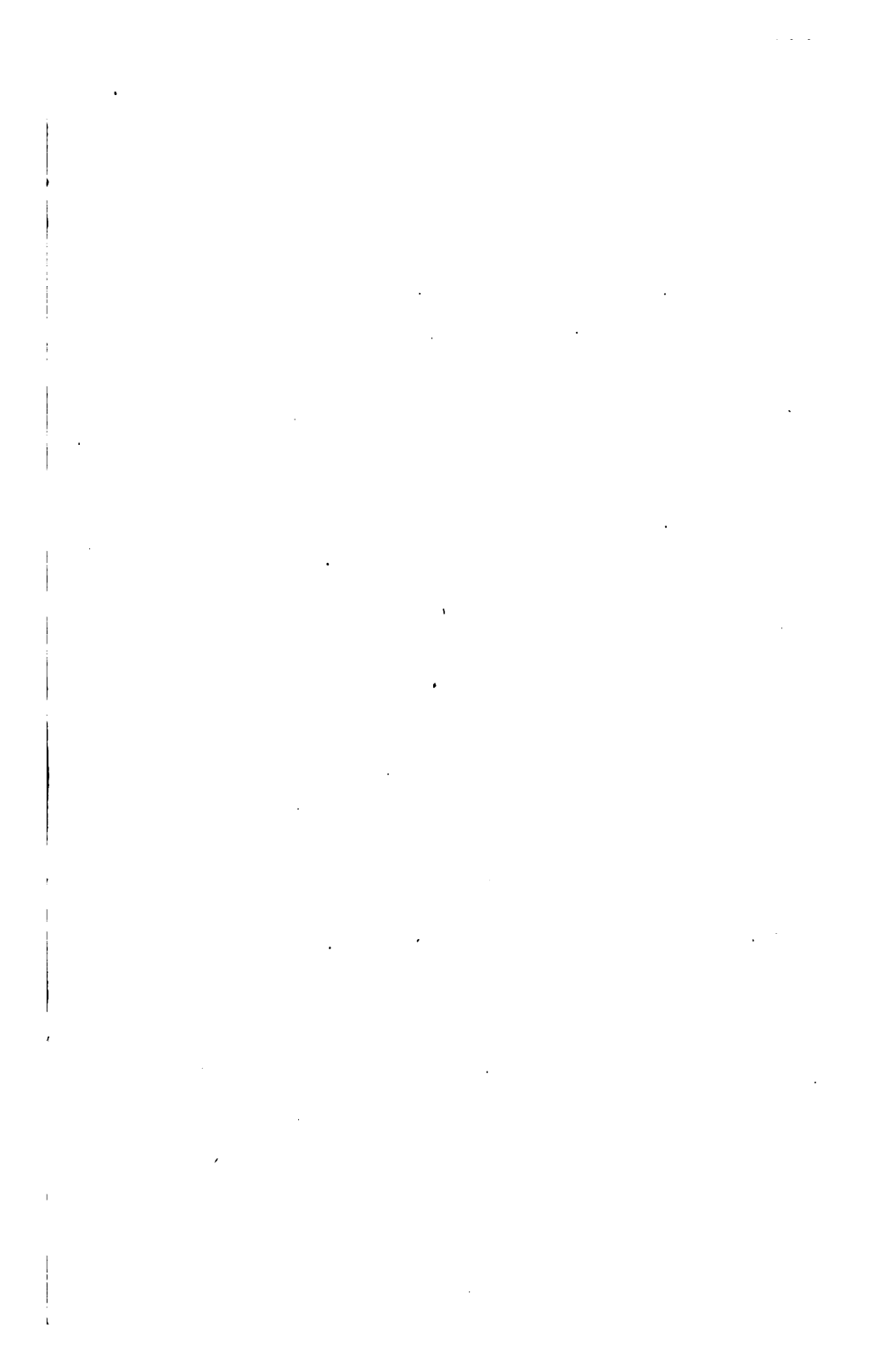


TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

DISEASES.	STATE.	Allegh.	Alpena.	Antrim.
II.—1. DIATHETIC.				
Totals,.....	305	5	.....	2
1. Droopy and Anemia,.....	208	4	.....	1
2. Cancer,.....	75	1	.....	1
3. Noma, (Canker,).....	17	.....	.....	.....
4. Mortification,.....	5	.....	.....	.....
II.—2. TUBERCULAR.				
Totals,.....	996	31	.....	2
1. Scrofula,.....	30	4	.....	.....
2. Phthisis, (Consumption of Lungs,).....	949	27	.....	2
3. Hydrocephalus,.....	17	.....	.....	.....
III.—1. NERVOUS SYSTEM.				
Totals,.....	522	10	1	3
1. Cephalitis,.....	80	.....	.....	.....
2. Apoplexy,.....	33	2	.....	1
3. Paralysis,.....	79	.....	1	.....
4. Insanity,.....	9	.....	.....	.....
5. Chorea,.....	2	.....	.....	.....
6. Epilepsy,.....	107	4	.....	.....
7. Convulsions,.....	37	.....	.....	.....
8. Brain Diseases, etc.,.....	170	4	.....	2
III.—2. ORGANS OF CIRCULATION.				
Totals,.....	207	2	.....	1
1. Pericarditis,.....	.....	.....	.....	.....
2. Heart Diseases, etc.,.....	207	2	.....	1
III.—RESPIRATORY ORGANS.				
Totals,.....	471	24	.....	1
1. Bronchitis,.....	12	.....	.....	.....
2. Pleurisy,.....	11	1	.....	.....
3. Pneumonia,.....	316	17	.....	.....
4. Asthma,.....	9	.....	.....	.....
5. Lung Diseases, etc.,.....	123	6	.....	1

Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Cheboygan.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Grand Traverse
6	1	7	8	13	9	.....	4	1	13	.....	11	2
5	1	6	6	9	4	.....	3	1	10	.....	6	1
1	.....	1	2	2	4	.....	.....	.....	2	.....	4	1
.....	.....	.....	.....	2	1	.....	1	.....	1	.....	1	.....
.....
26	7	25	34	41	23	2	50	4	18	2	46	4
2	.....	4	.....	1	.....	.....	1	.....	1	.....	1	.....
23	7	20	24	37	23	2	19	4	17	1	42	3
1	.....	1	.....	3	.....	.....	.....	.....	.....	1	3	1
7	1	30	20	26	10	.....	9	1	14	.....	18	1
.....	.....	12	6	10	4	.....	6	.....	.....	.....	5	.....
.....	.....	1	1	2	.....	.....	.....	.....	1	.....	1	.....
3	.....	9	3	1	1	.....	1	.....	4	.....	1	.....
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	4	3	4	3	.....	2	.....	4	.....	3	1
.....	.....	2	2	6	2	.....	.....	.....	1	.....	1	.....
3	1	2	4	8	.....	.....	.....	1	4	.....	5	.....
4	1	3	4	18	1	.....	14	.....	5	1	5	1
4	1	3	3	18	1	.....	14	.....	5	1	5	1
10	2	20	8	24	19	.....	11	.....	10	1	8	2
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
7	.....	15	7	17	16	.....	11	.....	9	.....	5	1
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
2	2	4	1	6	2	.....	.....	.....	1	1	2	.....

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT—CONTINUED.

Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.
4	7	1	2	10	6	.....	.....	12	5	14	9
2	6	.....	1	8	3	.....	.....	6	3	8	6
1	1	1	.....	2	2	.....	.....	5	2	5	2
1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	1
10	28	2	5	22	29	2	3	32	27	36	18
2	4	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
7	24	2	5	22	29	2	3	30	26	36	18
1	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
4	17	.....	6	10	12	.....	1	17	22	16	9
.....	2	.....	.....	1	2	.....	1	2	4	.....	2
.....	1	.....	.....	.....	.....	.....	.....	2	2	1	1
.....	5	.....	.....	4	.....	.....	.....	3	3	2	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....
3	3	.....	3	1	2	.....	.....	3	1	1	3
1	.....	.....	2	.....	.....	.....	.....	1	1	.....	2
.....	6	.....	1	4	8	.....	.....	6	11	11	.....
1	10	.....	2	2	4	.....	2	12	11	6	3
.....
1	10	.....	2	2	4	.....	2	12	11	6	3
5	17	2	6	15	14	2	.....	19	15	12	15
.....	.....	.....	.....	2	.....	.....	.....	1	1	2	1
.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
3	9	1	3	6	12	2	.....	9	11	1	9
.....	.....	.....	1	.....	.....	.....	.....	1	.....	1	.....
2	8	1	2	5	2	.....	.....	8	3	3	5

Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Muskegon.
3	9	7	18	2	.....	.....	.....	.....	.....	4	6	4
3	7	4	8	1	.....	.....	.....	.....	.....	2	5	3
.....	2	2	5	.....	.....	.....	.....	.....	.....	2	1	1
.....	.....	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	36	17	35	12	9	1	6	2	5	29	10	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
3	36	17	35	12	9	1	6	2	5	29	10	8
.....
2	26	16	20	2	4	1	2	.....	5	25	5	7
.....	1	1	2	.....	.....	.....	.....	.....	.....	4	1	.....
.....	4	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....
2	7	2	3	.....	.....	.....	.....	.....	.....	1	1	1
.....	.....	.....	2	.....	.....	.....	.....	.....	.....	1	1	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	8	8	2	.....	.....	1	1	.....	1	11	2	.....
.....	.....	.....	1	.....	.....	.....	.....	.....	2	.....	.....	1
.....	11	4	8	1	3	.....	1	.....	2	7	.....	5
1	12	5	2	1	.....	.....	2	1	.....	8	2	2
.....
1	12	5	2	1	.....	.....	2	1	.....	8	2	2
.....
1	16	14	8	1	7	1	2	.....	2	14	3	2
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	6	10	6	.....	6	1	2	.....	1	8	2	2
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	8	4	1	1	1	.....	.....	.....	1	5	.....	.....

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Saginaw.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
.....	18	3	.....	10	6	7	15	10	2	6	16	9
.....	16	2	.....	8	4	6	12	6	1	4	9	7
.....	2	.....	.....	2	1	.....	8	4	.....	2	6	2
.....	.....	1	.....	.....	1	1	.....	.....	1	.....	1	.....
.....
8	36	13	1	34	12	20	29	30	16	34	44	47
.....	1	.....	.....	1	.....	.....	.....	1	1	4	.....	.....
8	33	13	1	32	12	20	29	29	14	30	44	44
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	8
2	21	5	1	15	2	10	16	9	3	11	20	33
.....	.....	.....	.....	1	.....	.....	5	.....	.....	2	3	3
.....	5	.....	.....	1	.....	.....	3	1	.....	1	1	2
.....	6	.....	.....	2	.....	1	1	1	.....	2	5	2
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
1	3	2	.....	1	1	2	7	3	2	1	5	1
.....	.....	.....	.....	1	.....	2	.....	2	1	1	.....	5
.....	7	3	1	9	1	5	.....	2	.....	4	6	14
1	8	.....	.....	6	.....	.....	7	3	.....	8	12	14
.....
1	8	.....	.....	6	.....	.....	7	3	.....	8	12	14
.....
3	20	4	.....	16	7	10	15	16	5	21	14	7
.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
1	1	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....
2	15	3	.....	11	5	8	12	6	5	17	12	4
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	3	1	.....	4	1	.....	3	3	.....	4	2	.....

/

1

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

DISEASES.	STATE.	Alleghen.	Alpena.	Antrim.
III.—4. DIGESTIVE ORGANS.				
Totals,	240	3	.....	2
1. Gastritis,	8	.....	.....	.....
2. Enteritis,	96	.....	.....	1
3. Peritonitis,	9	.....	.....	.....
4. Hernia,	10	.....	.....	.....
5. Stomach Disease, etc., (c),	51	1	.....	.....
6. Hepatitis,	4	.....	.....	.....
7. Jaundice,	4	.....	.....	.....
8. Liver Diseases, etc.,	57	1	.....	1
9. Spleen Disease, etc.,	1	1	.....	.....
III.—5. URINARY ORGANS.				
Totals,	43	1	.....	.....
1. Diabetes,	17	1	.....	.....
2. Calculus, (Stone, Gravel, etc.,)	11	.....	.....	.....
3. Kidney Diseases, etc.,	15	.....	.....	.....
III.—6. GENERATIVE ORGANS.				
Totals,	4	.....	.....	.....
1. Ovarian Dropsy,	1	.....	.....	.....
2. Disease of Uterus, etc.,	3	.....	.....	.....
III.—7. ORGANS OF LOCOMOTION.				
Totals,	41	.....	.....	.....
1. Joint Diseases, etc., (f),	41	.....	.....	.....
III.—8. INTEGUMENTARY SYSTEM.				
Totals,	26	2	.....	.....
1. Phlegmon,	17	2	.....	.....
2. Ulcer,	9	.....	.....	.....
IV.—I. DEVELOPMENTAL DISEASES OF CHILDREN.				
Totals,	80	.....	.....	.....
1. Still-Born,	27
2. Infantile, Premature, etc.,	31
3. Cyanosis,	1
4. Teething,	21

CAUSES OF DEATH.

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[illegible]

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.
.....	6	1	3	3	2	1	.....	7	11	12	5
.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....
.....	3	1	2	2	1	.....	.....	.....	4	6	4
.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	3	4	4	.....
.....	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....
.....	2	.....	1	.....	.....	.....	.....	1	2	1	1
.....
.....	3	1	1	.....	.....	.....	.....	.....	1	1	.....
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	1	.....	.....	.....	.....	.....	1	1	.....
.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
.....	3	.....	1	.....	3	.....	.....	3	1	1	1
.....	3	.....	1	.....	3	.....	.....	3	1	1	1
.....	.....	.....	.....	1	2	.....	.....	.....	2	1	.....
.....	.....	.....	.....	1	1	.....	.....	.....	2	1	.....
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	1	1	.....	2	6	.....	.....	.....	.....	3	.....
.....	.....	1	.....	.....	4	.....	.....	.....	.....	3	.....
.....	1	.....	.....	2	1	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....

Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Mason.	Mecona.	Menominee.	Midland.	Monroe.	Montcalm.	Mustegon.
3	8	2	5	2	2	.....	1	.....	.....	2	2	3
3	2	2	2	.....	2	.....	.....	.....	.....	.....	.....	2
.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	2	.....	.....	.....	1	.....	.....	.....	1	.....
.....
.....	2	.....	1	1	.....	.....	.....	.....	.....	2	1	1
.....
.....	11	2	.....	.....	1	.....	.....	.....	.....	.....	1	1
.....	6	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	4	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....
1	4	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	.....	.....	1	.....	.....	.....	1	.....	.....	2	.....	1
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
1	4	5	5	.....	6	.....	.....	.....	.....	2	1	6
.....	1	5	2	.....	.....	.....	.....	.....	.....	1	.....	.....
1	1	.....	3	.....	.....	.....	.....	.....	.....	1	1	1
.....
.....	2	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	5

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Saginaw.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
1	5	5	.....	5	3	1	15	11	2	5	10	12
.....	1	1	.....	4	3	.....	6	2	2	2	4	6
.....	2	.....	.....	.....	.....	.....	2	2	.....	.....	1	.....
.....	1	2	.....	1	.....	1	1	1	.....	3	1	2
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	1	2	.....	.....	.....	.....	6	4	.....	.....	2	2
.....
1	.....	.....	.....	.....	1	.....	1	1	.....	2	2	.....
1	.....	.....	.....	.....	1	.....	.....	.....	.....	2	.....	.....
.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2	.....
.....
.....
.....
.....	1	1	.....	1	2	1	.....	2	1	.....	.....	1
.....	1	1	.....	1	2	1	.....	2	1	.....	.....	1
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	1	1	1	2	.....	.....	4	3	.....	2	2	13
.....	.....	.....	.....	2	.....	.....	1	1	.....	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	1	.....	.....	2	.....	13
.....
.....	1	.....	1	.....	.....	.....	.....	2	.....	.....	2	.....

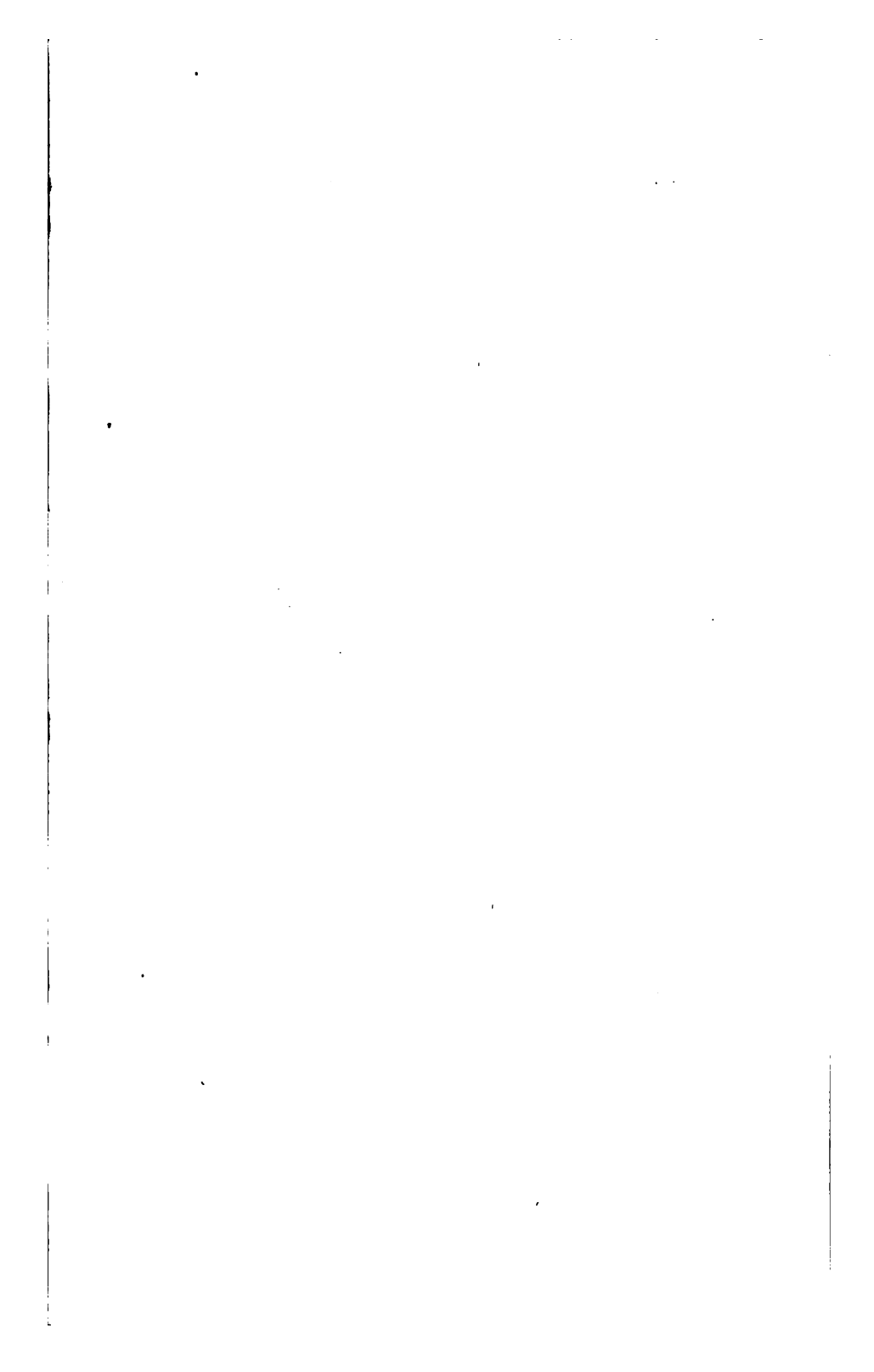


TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

DISEASES.	STATE.	Alleghen.	Alpena.	Antrim.
IV.—2. DEVELOPMENTAL DISEASES OF ADULTS.				
Totals,	91	5	.....	.....
1. Paramenia,	7	.....	.....	.....
2 Child Birth, (see also Metria,)	84	5	.....	.....
IV.—3. DEVELOPMENTAL DISEASES OF OLD PEOPLE.				
1 Old Age,	239	6	.....	4
IV.—4. DISEASES OF NUTRITION.				
1. Atrophy and Debility,	67	.....	.....	1
V.—1. ACCIDENT OR NEGLIGENCE.				
Totals,	352	11	1	.....
1. Fracture and Contusions,	10	.....	.....	.....
2. Burns and colds,	56	3	.....	.....
3. Poison,	16	.....	1	.....
4. Drowning,	23	1	.....	.....
5. Other Casualties,	207	7	.....	.....
V.—2. Homicide,	11	.....	.....	.....
V.—3. Suicide,	20	.....	.....	.....
Causes not Classified, (7,)	920	12	.....	4

(a.) Small Pox includes Chicken Pox.

(b.) Typhus includes Typhoid and Infantile Fevers.

(c.) Ague includes 41 cases of Congestive Chills.

(d.) With Remittent Fever are classed 162 cases of "Fever."

(e.) Stomach Disease includes, also, such diseases of the bowels and other digestive organs as are not classed under specific heads.

(f.) Includes 35 cases of diseases of the Spine.

(g.) "Causes not Classified," include those who died of Hemorrhage, Tumor, Inflammation, Congestion, and such other causes as are either positively unknown, or reported in such indefinite terms as to render classification impossible.

Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Cheboygan.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Grand Traverse.
2	.....	4	5	3	1	.....	.....	.....	1	1	5	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	4	4	3	1	.....	.....	.....	1	1	5	1
3	.....	1	7	16	3	.....	3	.....	8	1	9	.....
1	.....	2	1	5	.....	1	.....	.....	1	.....	.....	.....
12	2	16	6	6	5	1	9	2	5	1	8	4
.....	.....	1	2	1	.....	.....	.....	.....	2	.....	1	.....
2	1	.....	1	.....	1	.....	8	.....	.....	.....	1	.....
.....	.....	1	.....	.....	.....	.....	2	.....	.....	.....	2	.....
5	.....	9	.....	1	2	.....	.....	.....	.....	.....	1	2
5	1	5	3	4	2	1	4	2	3	1	3	2
.....	.....	.....	1	.....	1	.....	2	.....	.....	.....	.....	.....
.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....
27	29	34	19	34	20	.....	11	1	20	7	25	.....

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Gratiot.	Hilledale.	Houghton.	Huron.	Ingham.	Ionla.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.
2	3	1	1	1	.....	1	.....	2	1	6	4
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
2	3	1	1	.....	.....	1	.....	2	1	6	4
1	10	1	.....	3	8	.....	1	6	10	7	10
.....	2	2	.....	.....	1	.....	.....	6	10	.....	2
4	4	3	9	13	6	1	1	13	7	9	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	1	.....	.....	7	1	.....	.....	1	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	3	.....	1	.....
.....	1	1	.....	.....	.....	.....	.....	2	.....	1	.....
4	2	2	9	6	5	1	1	7	6	7	7
.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....
1	2	.....	.....	1	1	.....	.....	3	.....	1	.....
11	19	8	8	24	30	1	5	23	21	29	21

Leelanaw.	Leauwee.	Livingston.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Montegen
1	2	.....	3	1	.....	.....	.....	1	.....	2	.....	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	2	.....	2	1	.....	.....	.....	1	.....	2	.....	1
.....	10	2	8	1	.....	.....	2	.....	2	9	2	.....
.....	.....	.....	1	.....	.....	.....	1	.....	2	1	1	11
7	16	4	7	12	8	2	8	1	.....	18	3	8
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
1	2	.....	2	1	.....	.....	.....	.....	.....	2	.....	3
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	8	1	1	2	.....	1	1	.....	.....	1	.....	8
3	10	8	2	9	8	1	2	1	.....	9	3	2
.....
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	89	14	20	9	4	1	11	.....	12	20	9	13

TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.

Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
2	1	2	.....	2	3	.....	4	1	2	1	8	3
.....	1	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....
2	1	1	.....	2	3	.....	4	.....	1	1	8	3
.....	9	2	.....	4	3	5	15	6	.....	10	17	15
.....	2	.....	.....	2	.....	1	1	.....	.....	3	2	5
2	6	7	1	10	3	6	15	7	6	8	15	15
.....	.....	4	.....	6	.....	1	2	1	1	2	2	3
1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1
.....	1	.....	.....	1	2	.....	4	.....	3	2	6	2
1	5	3	1	3	1	5	8	6	2	4	6	9
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	2	2
9	37	9	.....	58	8	16	33	25	8	14	36	71

AN ACT
TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES
AND DEATHS.

SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, at the time of taking the annual assessment in each year, to ascertain by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships or cities, during the year and preceding the first Monday in April, in which such assessment is taken, together with the facts relating thereto, as are hereinafter provided for, and shall make an accurate return thereof to the county clerk in which such township or city is situated, within thirty days after completing said assessment.

Sec. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk or other person shall, at the time such marriage is solemnized, deliver on demand, to either of the parties so joined in marriage as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall within ninety days thereafter deliver to the clerk of the county in which such marriage took

place, a certified copy of such record, and at the same time pay to the clerk twenty-five cents for recording the same.

Sec. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages and deaths, to record the same at length, in separate books to be provided at the expense of the State, by the Secretary of State for that purpose, with proper indexes thereto. The births, marriages and deaths shall be numbered and recorded alphabetically, using both the name of the bridegroom and bride in the record of marriages, in the order in which they are received by the clerk of the county; the record of the birth shall state, in separate columns, the date of the birth, the name of the child, (if it have any,) the sex of the child, the place of birth, the Christian and surnames of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no Christian name, such name shall be obtained and reported to said county clerk in the next annual report of the supervisor or assessor, and such Christian name shall be distinctly designated in such report as the Christian name belonging to a child previously reported, and shall be properly entered by said county clerk in the blank left for such Christian name in his book of records. The marriages shall be recorded in the order in which they are received. The record of marriages shall state, in separate columns, the date and place of marriage, the Christian and surnames of the bridegroom and bride, the age and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the Christian and surname of the deceased, the sex, whether married or single, the age in years, months and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the oc-

cupation, if over ten years of age, and if under that age, the names and residence of the parents, if known, and the date when such record is made. The clerks of the several counties shall annually, on or before the first day of November, make and transmit to the Secretary of State a certified copy of the records in his office, of all the births, marriages and deaths that have occurred in their several counties during the year next preceding the first Monday in April.

Sec. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act; he shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks, on or before the first day of March in each year, and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities and wards therein in their respective counties, at the same time and in the same manner that blanks for assessment rolls are delivered.

Sec. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Sec. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

Sec. 7. Every physician, surgeon or midwife, who shall have been in attendance upon any deceased person, shall upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease or cause (if known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall for such offense be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect in his official character.

Sec. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein, (not otherwise obtained,) from the heads of families, the keepers, overseers or superin-

tendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction and similar institutions, the keepers of hotels, public and private boarding houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath, (which oath such supervisor or assessor is hereby empowered and authorized to administer,) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts,) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or appearing shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had until said fine be paid, but not exceeding ninety days; and any person who after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Sec. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Sec. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen and three thousand two hundred and sixteen, of the compiled laws of 1857, be and the same are hereby repealed.

Approved March 27, 1867.

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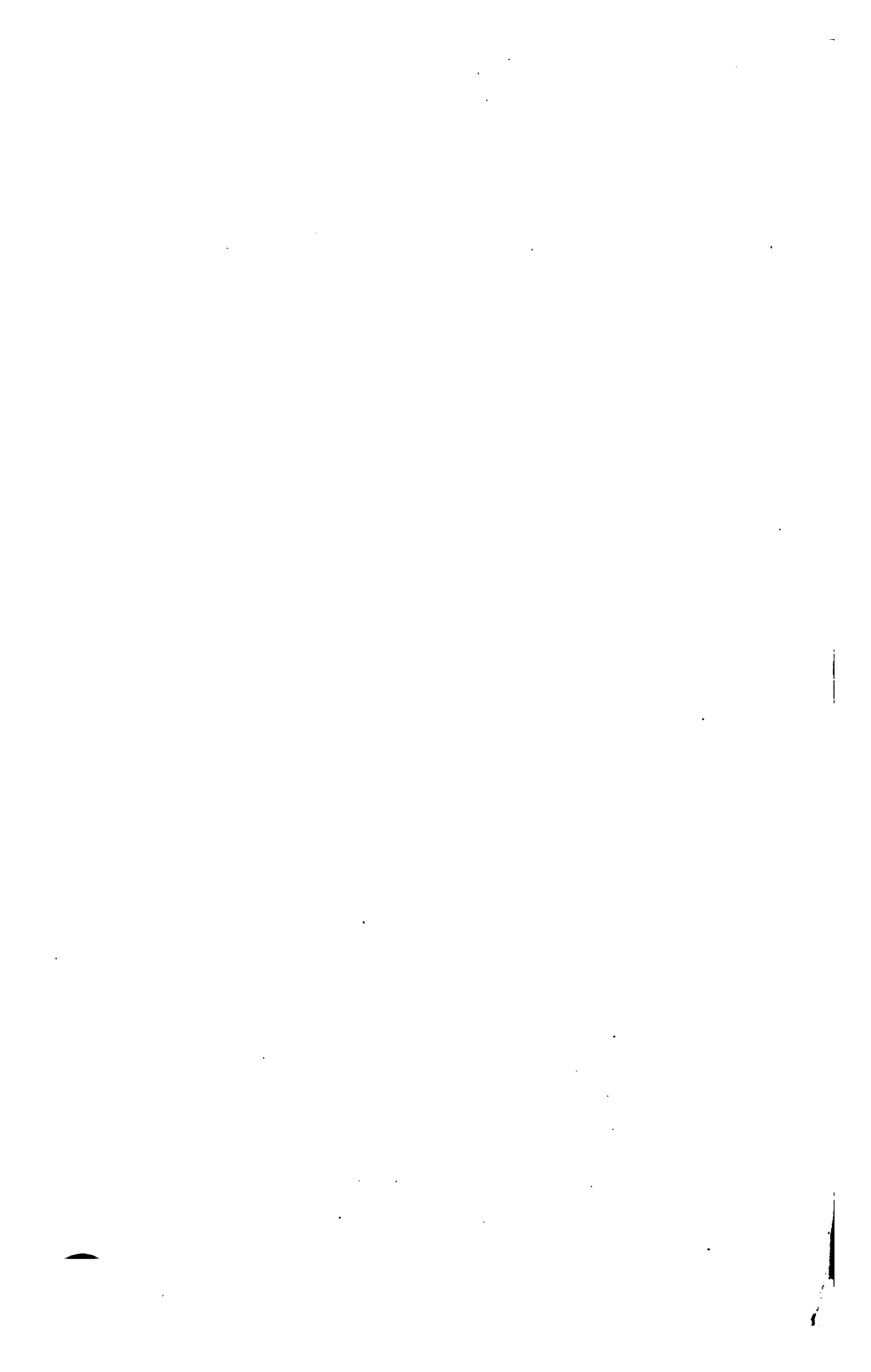
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SECOND ANNUAL REPORT
OF THE
SECRETARY OF STATE
OF THE
STATE OF MICHIGAN,
RELATING TO THE REGISTRY AND RETURN OF
BIRTHS, MARRIAGES AND DEATHS,
FROM APRIL 5th TO DECEMBER 31st, 1868, INCLUSIVE.



~~~~~  
*BY AUTHORITY.*  
~~~~~

LANSING:
W. S. GEORGE & CO., PRINTERS TO THE STATE.
1869.



P R E F A C E.

STATE DEPARTMENT, MICHIGAN.

SECRETARY'S OFFICE, }
Lansing, December 31, 1869. }

To His Excellency HENRY P. BALDWIN,
Governor of Michigan:

SIR—I have the honor herewith to submit the second Annual Report from this Department, of Births, Marriages, and Deaths.

This report is for only a fractional part of the year 1868—from April 5th to December 31st—in accordance with the amended law of last winter.

Hereafter, the year included in these reports, will end December 31st, instead of the first Monday of April, as under the former law.

The value of these returns, if correctly made, and the statistics compiled from them, can hardly be over-estimated, and no labor has been spared by this Department to attain the end contemplated by the law.

It is gratifying to be able to compliment most of the officials whose duty it is to collect and return the required information, upon the accuracy and promptness with which their work has been done.

It would be still more gratifying to be able to report that all had performed their duty in this respect.

The cases of delinquency are exceptional, however, and doubtless are rather the result of a misapprehension of a new law than an intention to disregard it. Occasional errors are unavoidable; but as the several officers become familiar with this new duty, we may expect more accurate returns. I regret to report that in a few instances the returns of Marriages are very imperfect; whether the result of ignorance of the law or an impression on the part of the person solemnizing the marriage that its requirements are unworthy of attention, I am unable to say. A failure to make the proper certificate and return, on the part of the person solemnizing the marriage, may work great injury, not only to the parties married, but to their posterity; and it is to be regretted that any one should presume to disregard so important a provision of the law.

Full instructions, and the necessary blanks are furnished to County Clerks for distribution to Clergymen and Justices of the Peace, and to them direct from this office, on their requisition, and it would seem that no reasonable excuse could be urged for this neglect of duty.

I am indebted to Dr. George E. Ranney, representing the State Medical Society, for assistance in preparing the report of Deaths, and for the introductory remarks upon diseases.

Very respectfully,

O. L. SPAULDING,

Secretary of State.

SECOND REGISTRATION REPORT.

FROM APRIL 5, TO DECEMBER 31, 1868, INCLUSIVE.

The present Report, comprising less than three-fourths of a year, cannot be made a full basis of comparison with the returns of the previous year, yet it presents many items of interest, showing that Michigan possesses a salubrious climate, an active and hardy population, and that these facts are appreciated by constantly increasing immigration.

The items contained in the following tables are gathered from a large area of territory by the numerous officers designated by the law to perform the duty, and the collection and return of the numerous facts called for, is a work that experience and the utmost care can alone render perfect. The frequent change of supervisors, assessors and county clerks will always, doubtless, be a hindering cause in the desired perfection and reliability of these reports. This can be overcome, in a measure, by an earnest effort and willing coöperation of those who are called upon to execute the law.

The careful collection and transcription of all the material facts is of cardinal importance; without this the aggregate results will be materially defective and uncertain. As years intervene, and the experience of the past furnishes a guide to greater excellence, we trust this Report may become a compendium of valuable information, useful to the whole country, and especially so to the Peninsular State.

The whole number of names returned by the several County Clerks, as registered for the period from April 5, to December

31, 1868, inclusive, was thirty-six thousand three hundred and seventy-seven (36,377), viz:

Nineteen thousand one hundred and seventy-one (19,171) children were born, (excluding still-births,) of which ten thousand one hundred and thirty-three (10,133) were males, nine thousand and three (9,003) were females, and thirty-five (35) sex not given, showing nearly as many for a period less than nine months as were returned for the entire previous year.

Ten thousand nine hundred and seventy (10,970) persons, or five thousand four hundred and eighty-five (5,485) couples were married.

The whole number of deaths returned was six thousand three hundred and twenty-six (6,326.)

The excess of births over deaths was 12,845.

DELINQUENT.

No returns have been received from Chippewa, Delta, Keweenaw, Mackinaw and Manitou counties. The township of Pentwater, in Oceana county; Ossineke, in Alpena; and Isabella and Broomfield, in Isabella, were not included in the returns from their respective counties. The third and fourth wards of the city of Ann Arbor were received too late for compilation in this Report. The counties of Alcona, Benzie, Charlevoix, Osceola and Wexford were organized under the acts of the last legislative session. Their returns are included with those of the counties to which they had formerly been attached.

The period of time comprised in the present report being a fractional part of the year 1868, the returns to this office embraced the statistics of births, marriages, and deaths which occurred both prior and subsequent to the time specified by law. The work of compilation and classification was thus largely increased: 19,171 births were compiled, and 570 rejected; 5,485 marriages were compiled, and 1,420 rejected; 6,326 deaths were compiled, and 197 rejected, for the reason above stated.

BIRTHS.

Of the 19,171 children born alive, 10,133 were males, 9,003 were females, and 35 sex not given. The parents of 10,010 children were born in the United States; the parents of 6,527 children were born in foreign countries; 848 children were born of American fathers and foreign mothers; 1,394 children were born of foreign fathers and American mothers; and the nativity of the parents of 392 children was not returned.

African and Indian.—One hundred and fifty-two children (82 males and 70 females) were born of African parents, and 85 children (45 males and 40 females) were born of Indian parents.

Twins.—There were born 210 pairs of twins—420 children—of which 219 were males, and 201 were females.

Triplets.—Three sets of triplets were born, 1 in Clinton county, and 2 in Wayne county—9 children—4 boys and 5 girls.

Illegitimate.—One hundred and four children—63 males and 41 females—were returned as illegitimate.

Still-born.—Forty-six still-births are reported—27 males, 17 females, and 2 sex not given. They are not used in the tables of this report, except for classification. But 27 still-births were returned for the first report, being a gain of 19 for this. But it is evident that the return of still-births is incomplete. Massachusetts, in 1867, returned 1,007 still-births to 35,062 living births.

Returns of Still-births made to this office for the period from April 5, to December 31, 1868, inclusive:

STILL BIRTHS.

COUNTIES.	Males.	Females.	Sex not Given.	Total.
Bay-----	--	1	--	1
Calhoun-----	2	2	--	4
Houghton-----	--	1	--	1
Ingham-----	--	1	--	1
Ionia-----	2	--	--	2
Kalamazoo-----	--	--	1	1
Kent-----	6	2	--	8
Marquette-----	1	1	--	2
Monroe-----	1	--	--	1
Shiawassee-----	2	--	--	2
St. Clair-----	1	--	1	2
St. Joseph-----	1	--	--	1
Van Buren-----	1	--	--	1
Washtenaw-----	--	1	--	1
Wayne-----	10	8	--	18
	—	—	—	—
Totals-----	27	17	2	46

TABLE, showing by Counties, the number of Children born of races other than white, from April 5 to December 31, 1868.

COUNTIES.	AFRICAN.		INDIAN.		Total.
	Males.	Females.	Males.	Females.	
Allegan	2	3	-----	-----	5
Antrim	-----	-----	2	-----	2
Bay	1	-----	-----	-----	1
Berrien	6	7	-----	-----	13
Calhoun	6	2	2	1	11
Cass	14	14	-----	-----	28
Clinton	1	-----	-----	-----	1
Eaton	-----	1	-----	-----	1
Emmet	-----	-----	24	16	40
Genesee	1	1	-----	-----	2
Gratiot	1	-----	-----	-----	1
Houghton	-----	1	2	3	6
Ingham	2	2	-----	-----	4
Ionia	-----	1	-----	-----	1
Jackson	1	1	-----	-----	2
Kalamazoo	4	6	-----	-----	10
Kent	2	-----	-----	-----	2
Leelanaw	-----	-----	3	6	9
Lenawee	3	-----	-----	-----	3
Mason	-----	-----	8	9	17
Mecosta	1	2	-----	-----	3
Monroe	1	1	-----	-----	2
Montcalm	1	1	-----	-----	2
Newaygo	-----	-----	-----	1	1
Oakland	2	2	-----	-----	4
Oceana	-----	-----	3	2	5
Ottawa	1	-----	-----	-----	1
Saginaw	2	2	-----	-----	4
Shiawassee	1	-----	-----	-----	1
St. Clair	1	-----	-----	-----	1
Van Buren	2	7	1	1	11
Washtenaw	4	4	-----	-----	8
Wayne	22	12	-----	1	35
Totals	82	70	45	40	237

TWINS.

Analysis, by Counties, of the birth-places of the Parents of Twins, and the several occupations of their Fathers, according to the returns.

Allegan—Six American, 1 Hollander, 1 German father and American mother. Five fathers are farmers, 1 engineer, 1 physician, and 1 joiner. Total, 8 pairs, or 16 children.

Barry—One American, 1 nativity of parents not given. Fathers of both are farmers. Total, 2 pairs, or 4 children.

Bay—One American, 1 German, 1 German father and American mother, 1 Belgian father and Holland mother, 1 Scotch father and Canadian mother. Two of the fathers are farmers, 1 laborer, 1 saloon-keeper, and 1 clerk. Total, 5 pairs, or 10 children.

Berrien—Three American, 1 African, 1 Hollander, 1 German father and American mother, 2 nativity of parents not given. Five of the fathers are farmers, 1 carpenter, 1 barber, and 1 a miller. Total, 8 pairs, or 16 children.

Branch—Four pairs, all Americans. Three fathers are farmers, and 1 joiner. Eight children.

Calhoun—Six American, 1 Irish, 1 American father and English mother. Of the fathers, 5 are farmers, 1 laborer, 1 cooper, and 1 salesman. Total, 8 pairs, or 16 children.

Cass—One German, 1 American father and English mother. One father is a farmer, the other, farmer and mason. Total, 2 pairs, or 4 children.

Charlevoix—One pair of twins, American parents, and father a farmer.

Clinton—Three American, 3 English fathers and American mothers. All farmers. Total, 6 pairs, or 12 children.

Eaton—All American parents, and all farmers. Total, 3 pairs, or 6 children.

Genesee—Five American, 1 Irish. Five fathers are farmers, and 1 a machinist. Total, 6 pairs, or 12 children.

Grand Traverse—Four American, 1 Nova Scotia father and English mother. Of the fathers, 4 are farmers, and 1 wagon maker. Total, 5 pairs, or 10 children.

Hillsdale—All of American parents. Three fathers are farmers, 1 artist, and 1 laborer. Total, 5 pairs, or 10 children.

Houghton—One American, 1 German. One father is an engine driver, the other a farmer. Total, 2 pairs, or 4 children.

Huron—One English, 1 German. Fathers—1 merchant tailor, 1 laborer.

Ingham—Five American, 1 African, 1 nativity not given. Of the fathers, 4 are farmers, 1 miller, 1 laborer, and 1 joiner. Total, 7 pairs, or 14 children.

Ionia—Three American, 1 English father and American mother, 1 Scotch father and American mother. Two fathers are farmers, 1 blacksmith, 1 miller, and 1 lumberman. Total, 5 pairs, or 10 children.

Isabella—One pair, Canadian parents, and father a merchant.

Jackson—Two American, 1 German, 1 American father and English mother. Three fathers are farmers, and 1 blacksmith. Total, 4 pairs, or 8 children.

Kalamazoo—Two Americans and 1 African. All the fathers are farmers. Total, 3 pairs, or 6 children.

Kent—Two Americans, 2 Canadians, and 1 American father and Canadian mother. Total, 5 pairs, or 10 children.

Lapeer—One American, 2 Canadians, 1 Irish, and 1 nativity unknown. Four fathers are farmers, and 1 a mason. Total, 5 pairs, or 10 children.

Leelanaw—One American, 1 German father and American mother. The fathers are farmers. Total, 2 pairs, or 4 children.

Lenawee—Three American, 1 Irish, 1 German, 1 American father and English mother, 1 nativity unknown. Four fathers

are farmers, 2 laborers, and 1 machinist. Total, 7 pairs, or 14 children.

Livingston—Two Americans and 2 Germans. The fathers are farmers. Total, 4 pairs, or 8 children.

Macomb—Three Americans and 1 German. Three fathers are farmers and 1 a brewer. Total, 4 pairs, or 8 children.

Manistee—One pair, French father and American mother. The father is a laborer.

Marquette—One pair, American parents, and father a laborer.

Mason—One American and 1 American father and German mother. Fathers are farmers. Total, 2 pairs, or 4 children.

Mecosta—One pair, American father and French mother. Father is a farmer.

Monroe—Six American and 4 German. Eight fathers are farmers, 1 shoemaker, and 1 a butcher. Total, 10 pairs, or 20 children.

Muskegon—One pair, English parents; father a mason and farmer.

Newaygo—One pair, Canadian parents; father a butcher.

Oakland—Three American, 1 Isle of Man, 1 English, 1 English father and American mother, 1 English mother, nativity of father not given. Five fathers are farmers, 1 mason, 1 laborer. Total, 7 pairs, or 14 children.

Oceana—One American, 1 pair illegitimate twins, American mother. One father, mechanic; nativity and occupation of the other not given. Total, 2 pairs, or 4 children.

Ottawa—Two American, 4 Hollander, 1 Scotch, 1 Swiss. Two fathers are farmers, 4 laborers, 1 carpenter, and 1 merchant. Total, 8 pairs, or 16 children.

Saginaw—One American, 1 Canadian, 1 German, 1 African, 1 American father and Canadian mother, 1 Irish father and Canadian mother. Of the fathers, 3 are farmers, 1 painter, 1 lumberman, and 1 blacksmith. Total, 6 pairs, or 12 children.

Sanilac—One American, 3 Canadian. Three fathers are farmers, and 1 a laborer. Total, 4 pairs, or 8 children.

Shiawassee—Five American and 1 German. Four fathers are farmers, and 2 merchants. Total, 6 pairs, or 12 children.

St. Clair—Three American, 1 Canadian, 1 Irish father and Scotch mother, 1 Canadian father and English mother, 1 Canadian father and American mother. Five fathers are farmers, 1 fireman, and 1 deputy sheriff. Total, 7 pairs, or 14 children.

St. Joseph—Three American, 1 English father and American mother. Three fathers are farmers, 1 a mechanic. Total, 4 pairs, or 8 children.

Tuscola—Two pairs, both American parents, and the fathers of both are farmers.

Van Buren—All American parents. Two fathers are farmers, and 1 a carpenter. Total, 3 pairs, or 6 children.

Washtenaw—Two German, 1 Irish, and 1 English father and American mother. Three fathers are farmers, and 1 a laborer. Total, 4 pairs, or 8 children.

Wayne—Seven American, 6 German, 2 Canadian, 1 Russian, 1 Irish, 1 Bohemian, 1 French, 1 French father and American mother, 1 German father and American mother, 1 Canadian father and American mother. The nativity of the parents of 2 pairs are not given. If the returns are credible evidence, 1 pair of twins has 4 parents; the first two are Germans, and the father a painter; the other two are Canadians, and the father a blacksmith. Occupations of fathers—3 farmers, 3 laborers, 1 printer, 1 painter, 1 lawyer, 1 barber, 1 teamster, 1 mason, 1 sailor, 1 tinsmith, 1 ship carpenter, 1 hotel-keeper, 1 saloon keeper, 1 butcher, 1 chemist, 1 bar-keeper, 1 clerk, and 1 who is both painter and blacksmith. Total, 25 pairs, or 50 children.

TRIPLETS.

Three sets of triplets are returned, viz :

1. One boy and two girls, born in Detroit May 5, 1868. Father a Canadian, and shoemaker; mother a Tennessean.
2. Two boys and one girl, born in Detroit May 28, 1868. Parents Scotch, and father a laborer.

3. One boy and two girls, born in St. Johns, Clinton county, June 10, 1868. Parents Irish, and father a shoemaker.

ILLEGITIMATE CHILDREN.

Analysis, by Counties, of the birth-places of the Parents of Illegitimate Children, according to the returns.

Allegan—Six children; 3 American, 1 Swiss father and German mother, 1 American mother, 1 nativity of parents not given.

Barry—Two children; the parents of both are American.

Berrien—Three children; 2 American mothers and 1 Canadian mother. Nativity of fathers not given.

Branch—Four children; 2 American parents, and 2 American mothers.

Calhoun—Four children; 1 American, 2 American mothers, 1 African mother. Nativity of the fathers not given. Three of the children were born at the county poor-house.

Cass—Three children; 2 African mothers, 1 nativity of mother not given. Nativity of fathers not returned.

Clinton—One child; American.

Emmet—Seven children; 6 Indian parents, 1 American father and Indian mother.

Genesee—Two children; both of American mothers. Nativity of fathers not returned.

Gratiot—Two children; 1 American mother, 1 not given. Nativity of fathers not returned.

Ingham—One child; American parents.

Ionia—Two children; 1 American mother, and 1 nativity of neither parent given.

Jackson—Five children; 3 American, 1 Irish father and American mother, 1 German mother.

Kalamazoo—One child; American parents.

Kent—One child; American mother. Nativity of father not returned.

Lapeer—Three children; 2 American and 1 Canadian parents.

Lenawee—One child; nativity of parents not given.

Livingston—Three children; all have American mothers. Nativity of fathers not returned.

Macomb—Four children; 2 American, 1 English mother, 1 German mother. Nativity of fathers not given.

Marquette—One child; French parents.

Mason—Two children; Indian parents.

Mecosta—One child; Canadian parents.

Monroe—Five children; 2 American parents, 2 American mothers, 1 German mother.

Montcalm—Two children; 1 American, 1 Irish.

Muskegon—Three children; 1 American; 1 American mother, 1 parents not named.

Oakland—Two children; American mothers. Nativity of fathers unknown.

Oceana—Two children, twins; American mother. Nativity of father not given.

Ontonagon—One child; Irish mother. No other particulars returned.

Ottawa—One child; Holland mother. No other facts given.

Sanilac—Four children; 2 Canadian, 1 English mother, 1 parents not given.

Shiawassee—Two children; 1 American, 1 American mother, 1 father's nativity not stated.

St. Clair—Four children; 3 American, 1 Canadian father and American mother.

Van Buren—One child; American mother. No particulars about the father.

Washtenaw—Two children; 1 German, 1 American mother. Nativity of one father not given.

Wayne—Sixteen children; 2 American parents, 1 African, 1 Scotch, 1 American mother. Nativity of the parents of 11 not given. Ten of these children, including a pair of twins, are returned as born at the poor-house.

BIRTHS FOR SPECIFIED PERIODS.

Quarter ending June, 1868.....	5,588
“ “ September, 1868.....	6,924
“ “ December, 1868.....	6,628
Average births per month.....	2,130
“ “ “ week.....	497
“ “ “ day.....	71

The greatest number born in one month was in August, 2,399; and the least, in April, 1,607.

The percentage of the parents of living children born is—

American.....	52.21
Foreign.....	34.05
American father and foreign mother.....	4.42
Foreign father and American mother.....	7.27
Unknown nativity of parents.....	2.05

Compared with last year's report, the proportion of American births is 6.07 per cent. less; the proportion of foreign births is 7.78 per cent. more; the proportion of American fathers and foreign mothers is 0.08 per cent. less; the proportion of foreign fathers and American mothers is 0.12 per cent. more; and the proportion of those whose nativity is unknown is 0.30 per cent. less.

The following inferences are suggested:

1. The decreasing percentage returned as “unknown,” indicates greater accuracy in collecting the returns.
2. That there is a large increase of foreign immigration to this State.

The returns show that the counties bordering on the great lakes and their connecting rivers are receiving large accessions of population from Canada. In the lumbering, and more especially the mining regions, the increase of foreign population of various nationalities is strongly indicated.

An analysis of the nativity of the parents of the children

born, as returned from Houghton, the most populous of the mining counties, shows that

- 17 were American,
- 46 " German,
- 43 " English,
- 76 " Irish,
- 5 " Scotch,
- 2 " Swedes,
- 20 " Canadians,
- 1 was French,
- 2 were American fathers and foreign mothers,
- 6 " Foreign fathers and American mothers,
- 22 " Foreigners intermarried.

Total, 240—

Of which but a fraction over 7 per cent. were born in America.

The proportion of triplets to the whole number of children born in Michigan, is nearly 1 to 2,130.

The proportion of twins to the whole number is 1 to 45 $\frac{3}{4}$.

The proportion of illegitimate to the whole number is nearly 1 to 180.

The proportion of African children to the whole number of children born is as 1 to 126.

The proportion of Indian children to the whole number is about 1 to 235 $\frac{1}{2}$.

TABLE I.
BIRTHS by Counties—Proportion of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Allegan.....	52.85	47.15	112
Alpena.....	36.84	63.16	58
Antrim.....	75.76	24.24	312
Barry.....	51.78	48.22	107
Bay.....	58.81	46.19	116
Berrien.....	58.84	46.16	117
Branch.....	49.87	50.13	99
Calhoun.....	58.76	46.24	116
Cass.....	49.70	50.30	98
Charlevoix.....	48.57	51.43	94
Cheboygan.....	14.29	85.71	16
Clinton.....	58.18	46.87	118
Eaton.....	52.26	47.74	109
Emmet.....	60.00	40.00	150
Genesee.....	51.49	48.51	106
Grand Traverse.....	47.06	52.94	88
Gratiot.....	55.74	44.26	125
Hillsdale.....	49.26	50.74	97
Houghton.....	55.88	44.17	126
Huron.....	54.82	45.68	118
Ingham.....	52.01	47.99	103
Ionia.....	55.07	44.98	122
Iosco.....	32.43	67.57	48
Isabella.....	60.26	39.74	151
Jackson.....	50.73	49.27	102
Kalamazoo.....	54.95	45.05	121
Kent.....	54.81	45.69	118
Lapeer.....	47.72	52.28	91

TABLE I—CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Leelanaw	48.04	51.96	92
Lenawee	51.54	48.46	106
Livingston	54.07	45.93	117
Macomb	55.86	44.14	126
Manistee	56.67	43.33	130
Marquette	51.85	48.15	107
Mason	55.00	45.00	122
Mecosta	51.87	48.13	107
Menominee	35.71	64.29	55
Midland	53.85	46.15	117
Monroe	52.92	47.08	112
Montcalm	48.76	51.24	95
Muskegon	52.23	47.77	109
Newaygo	55.04	44.96	122
Oakland	57.87	42.13	137
Oceana	58.83	41.17	140
Ontonagon	57.55	42.45	136
Ottawa	50.90	49.10	108
Saginaw	50.78	49.22	108
Sanilac	56.48	43.52	129
Shiawassee	62.21	37.79	131
St. Clair	58.23	41.77	139
St. Joseph	45.24	54.76	83
Tuscola	50.26	49.74	101
Van Buren	51.42	48.58	106
Washtenaw	53.41	46.59	114
Wayne	53.26	46.74	113
Wexford	64.29	35.71	130
State	52.95	47.05	113

TABLE II.—BIRTHS.

EXHIBITING the Sex, condition, (as twin or illegitimate), and Parentage of Children born in the several Counties, during the period from April 5th to December 31st, 1868, inclusive.

COUNTIES	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.				
		Males.	Females.	Unknown	Twins.		Illeg'mt		Americ'n.	Foreign.	Am. Pa. For. No.	For. Pa. Am. No.	Unknown
					Males.	Fem.	Males.	Fem.					
Allegan.....	474	250	223	1	8	8	3	3	299	111	20	37	7
Alpena.....	38	14	24	—	—	—	—	—	7	19	4	8	—
Antrim.....	33	25	8	—	—	—	—	—	17	9	2	5	—
Barry.....	339	175	163	1	8	1	2	—	208	43	9	26	58
Bay.....	210	113	97	—	5	5	—	—	53	124	12	19	2
Berrien.....	549	295	253	1	9	7	2	1	323	115	23	40	43
Branch.....	362	190	181	1	3	5	4	—	303	23	14	13	4
Calhoun.....	559	300	258	1	10	6	4	—	403	94	24	37	1
Cass.....	337	167	169	1	3	1	2	1	231	29	8	16	3
Charlevoix.....	36	17	18	1	1	1	—	—	13	12	5	5	1
Cheboygan.....	7	1	6	—	—	—	—	—	1	2	2	2	—
Clinton.....	435	229	202	4	10	2	1	—	298	75	22	42	3
Eaton.....	399	203	190	1	3	3	—	—	344	19	11	23	2
Emmet.....	40	24	16	—	—	—	4	3	33	—	2	—	—
Genesee.....	536	276	260	—	5	7	1	1	366	84	33	41	12
Grand Trav.....	102	43	54	—	6	4	—	—	55	29	4	7	7
Gratiot.....	133	102	31	—	—	—	1	1	142	21	2	16	2
Hillsdale.....	403	201	207	—	4	6	—	—	343	23	10	13	4
Houghton.....	240	134	106	—	3	1	—	—	17	214	2	6	1
Huron.....	162	83	74	—	1	3	—	—	11	135	6	10	—
Ingham.....	443	233	215	—	9	5	—	1	343	43	15	29	13
Ionia.....	491	266	217	3	6	4	—	2	357	60	21	45	3
Iosco.....	37	12	25	—	—	—	—	—	12	19	3	3	—
Isabella.....	73	47	31	—	1	1	—	—	53	6	2	4	13
Jackson.....	479	243	236	—	5	3	5	—	326	94	23	33	3
Kalamazoo.....	475	261	214	—	1	5	—	1	321	90	21	33	10
Kent.....	697	373	313	1	3	7	—	1	397	225	23	45	7
Lapeer.....	329	157	172	—	4	6	2	1	151	37	25	45	21

TABLE II—CONTINUED.

COUNTIES	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.				
		Males.	Females.	Unknown	Twins, illeg'mte				Americ'n.	Foreign.	Am. Pa. For. Mo.	For. Pa. Am. Mo.	Unknown
					Males.	Fem.	Males.	Fem.					
Leelanaw ..	102	49	53	---	2	2	---	---	88	50	8	11	---
Lenawee....	558	285	268	---	5	9	---	1	871	116	19	27	20
Livingston..	273	146	124	8	5	8	---	8	195	88	9	21	10
Macomb	512	286	226	---	8	5	2	1	212	205	38	62	---
Manistee....	90	51	39	---	2	---	---	---	32	33	15	9	1
Marquette ..	162	84	78	---	2	---	1	---	15	147	---	---	---
Mason	80	44	36	---	2	2	1	1	48	28	6	5	8
Mecosta.....	146	75	71	---	2	---	1	---	77	41	18	9	1
Menominee ..	28	10	18	---	---	---	---	---	7	17	8	1	---
Midland	89	21	18	---	---	---	---	---	25	9	8	2	---
Monroe.....	565	299	266	---	14	6	2	8	332	167	22	41	8
Montcalm....	201	98	103	---	---	---	1	1	189	33	12	17	---
Muskegon ..	315	164	150	1	---	---	1	2	118	141	20	33	8
Newaygo	129	71	58	---	1	1	---	---	90	25	6	8	---
Oakland	491	238	206	2	5	9	2	1	320	88	80	45	18
Oceana.....	121	70	50	1	8	1	1	1	80	25	10	6	---
Ontonagon..	106	61	45	---	---	---	1	---	5	94	8	4	---
Ottawa.....	554	282	272	---	8	8	1	---	187	314	18	23	12
Saginaw	642	326	316	---	6	6	---	---	184	369	32	48	9
Sanilac	301	170	131	---	3	5	3	1	25	219	22	34	1
Shiawassee..	387	191	146	---	7	5	1	1	231	68	11	24	3
St. Clair	680	396	284	---	7	7	4	---	187	428	49	64	2
St. Joseph..	387	152	134	1	4	4	---	---	259	57	5	15	1
Tuscola.....	139	95	94	---	2	2	---	---	101	41	11	13	13
Van Buren ..	457	235	222	---	3	3	---	1	361	42	20	29	5
¹ Washtenaw ..	455	243	212	---	4	4	---	2	217	164	23	45	6
Wayne	2,309	1,498	1,310	6	22	28	10	6	706	1,761	97	184	61
Wexford....	14	9	5	---	---	---	---	---	11	2	---	1	---
State.....	19,171	10,138	9,008	35	219	201	68	41	10,010	6,527	848	1,394	392

¹ The returns from the 3d and 4th wards of the city of Ann Arbor, were received too late for compilation.

TABLE III.—BIRTHS.

EXHIBITING, by Counties, the number of Children born in each Month, during the period from April 5th to December 31st, 1868.

COUNTIES.	MONTHS.									
	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Allegan.....	85	47	52	59	60	64	54	46	50	7
Alpena.....	2	6	1	2	5	8	7	6	6	---
Antrim.....	4	8	8	8	2	4	6	2	6	---
Barry.....	25	87	28	40	41	50	88	32	89	---
Bay.....	15	22	82	25	25	81	22	19	19	---
Berrien.....	40	70	58	69	68	65	50	61	78	---
Branch.....	28	87	89	87	58	42	47	43	41	---
Calhoun.....	87	52	55	78	79	66	68	61	68	---
Cass.....	19	29	41	48	47	48	48	32	84	1
Charlevoix.....	2	4	7	2	5	2	8	6	5	---
Cheboygan.....	---	1	2	---	1	1	1	1	---	---
Clinton.....	50	61	55	47	85	55	56	27	45	4
Eaton.....	28	41	48	50	62	48	87	43	42	---
Emmet.....	1	2	5	5	6	4	4	2	11	---
Genesee.....	47	66	56	58	66	72	59	55	62	---
Grand Traverse.....	10	16	11	10	17	9	14	9	6	---
Gratiot.....	12	24	21	22	28	21	20	17	23	---
Hillsdale.....	27	54	41	61	45	42	49	38	50	1
Houghton.....	14	25	25	27	81	24	25	34	35	---
Huron.....	8	24	21	20	18	17	16	20	18	---
Ingham.....	46	41	50	41	59	61	52	43	54	1
Ionia.....	48	56	43	58	81	61	51	52	46	---
Iosco.....	6	5	4	4	11	4	---	1	2	---
Isabella.....	4	11	9	6	8	12	7	11	10	---
Jackson.....	88	49	49	65	51	56	60	59	55	2
Kalamazoo.....	87	50	47	42	62	58	68	50	66	---
Kent.....	42	70	64	71	95	102	78	86	86	8

TABLE III—CONTINUED.

COUNTIES.	MONTHS.									
	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Lapeer	29	31	38	43	42	41	31	40	33	1
Leelanaw	8	12	12	16	16	9	10	11	8	---
Lenawee	25	54	56	49	70	74	65	87	72	1
Livingston	17	34	18	36	32	38	34	34	30	---
Macomb	39	41	61	60	71	60	66	60	54	---
Manistee	11	2	6	12	14	15	15	9	6	---
Marquette	16	12	18	18	19	20	23	18	18	---
Mason	12	12	12	5	8	12	4	8	7	---
Mecosta	15	16	11	18	17	16	20	18	15	---
Menominee	3	2	3	6	3	6	2	---	3	---
Midland	3	3	3	3	4	6	4	2	6	---
Monroe	45	47	48	63	73	74	83	59	72	1
Montcalm	8	22	16	35	32	25	16	24	23	---
Muskegon	34	27	21	39	59	37	40	32	26	---
Newaygo	11	9	17	15	18	21	19	8	11	---
Oakland	46	53	39	57	61	64	63	61	46	1
Oceana	12	14	19	10	21	16	15	9	5	---
Ontonagon	6	8	13	12	15	12	10	14	16	---
Ottawa	37	61	60	64	63	70	65	60	67	2
Saginaw	51	79	74	72	79	74	78	73	61	1
Sanilac	32	33	33	34	39	30	26	45	24	---
Shiawassee	25	42	36	37	41	37	47	30	42	---
St. Clair	56	70	64	74	90	34	75	35	32	---
St. Joseph	27	34	39	23	42	45	43	25	46	3
Tuscola	19	23	21	19	17	22	17	17	29	---
Van Buren	24	44	49	52	62	63	52	53	51	2
Washtenaw	35	43	43	52	49	71	49	50	53	---
Wayne	343	290	237	239	279	293	334	310	429	---
Wexford	3	1	5	---	2	1	---	1	1	---
State	1,607	2,037	1,944	2,163	2,399	2,362	2,246	2,099	2,233	31



MARRIAGES.

The number of marriages from April 5 to December 31, 1868, was 5,485, or 10,970 persons married. Three thousand three hundred and forty-one couples were born in the United States; 1,022 couples were born in various Foreign countries; 324 couples were American male, and Foreign female; 596 couples were Foreign male, and American female; the nativity of 202 couples was not stated in the returns.

Fifty-two African and 25 Indian couples were married.

Two thousand nine hundred and nineteen persons were married, under 21 years of age, as follows:

Two hundred and seventeen males, aged 20; 105 males, aged 19; 37 males, aged 18; and 5 males, aged 17—total, 364.

Five hundred and thirty-eight females, aged 20; 589 females, aged 19; 631 females, aged 18; 398 females, aged 17; 331 females, aged 16; 58 females, aged 15; 8 females, aged 14; and 2 females, aged 13—total, 2,555.

The largest number of persons (4,160) were married between the ages of 20 and 25; the second greater number (2,328) between the ages of 25 and 30; and 2,163 were married under 20 years of age. Upon mature consideration—it is fair to infer—two veterans married after passing the age of eighty years.

The greatest monthly return of marriages was for October—738; the least number was for December—524.

The number of marriages for each quarter, is as follows:

Quarter ending June, 1868.....	1,667
“ “ September, 1868.....	1,886
“ “ December, 1868.....	1,924
Date of marriage not stated.....	8

The following analysis, by counties, of numerous marriages, exhibits disparity of ages in some parties, youthful ardor in many, mature consideration in others, and a high estimation of matrimonial alliances by all :

Antrim—Man aged 61, married to woman aged 26.

Barry—Man 78, woman 66.

Berrien—Man 74, woman 23.

Branch—Man 74, woman 75.

Cass—Man 74, woman 53.

Eaton—Boy 18, girl 16 ; boy 17, girl 16 ; boy 18, woman 37.

Emmet—Boy 18, girl 16, both Indians ; Indian boy 19—half-breed girl, aged 13.

Genesee—Man 27, girl 15.

Grand Traverse—Man 46, girl 18 ; man 26, girl 15 ; man 50, girl 20.

Gratiot—Man 63, woman 35 ; boy 19, girl 15.

Houghton—Man 22, girl 15 ; man 21, girl 15 ; man 22, girl 13.

Ingham—Man 74, woman 68 ; man 55, woman 20.

Ionia—Man 46, girl 17.

Isabella—Man 73, woman 49 ; Indian 80, squaw 30.

Jackson—Man 31, girl 14.

Kalamazoo—Man 75, woman 67 ; man 75, woman 58 ; man 73, woman 50.

Kent—Boy 18, girl 16.

Lapeer—Boy 17, girl 17.

Lenawee—Man 76, woman 62 ; man 80, woman 71.

Macomb—Man 50, woman 20.

Mason—Boy 18, girl 15.

Monroe—Man 68, woman 25.

Ottawa—Man 38, woman 60.

St. Joseph—Man 75, woman 50; man 45, woman 18.

Wayne—Man 79, woman 52.

The following is the percentage of nativities of persons married, viz :

American.....	60.93
Foreign.....	18.63
American male and Foreign female.....	5.90
Foreign male and American female.....	10.86
Nativity unknown.....	3.68

This also shows a gratifying decrease of the number returned as unknown, compared with last year's report, and a consequent increase of all other classes known.

The number of Indians married, in proportion to the whole number of marriages, is as 1 to 219 2-5.

The number of colored persons married, in proportion to all marriages, is a fraction less than 1 to 105½.

The following analysis shows the percentage of persons married at certain periods of life, including both sexes :

Under 20 years.....	19.72
From 20 to 25 years.....	37.93
“ 25 to 30 “.....	21.23
“ 30 to 35 “.....	7.80
“ 35 to 40 “.....	4.35
“ 40 to 45 “.....	2.47
“ 45 to 50 “.....	1.82
“ 50 to 55 “.....	96
“ 55 to 60 “.....	88
“ 60 to 65 “.....	50
“ 65 to 70 “.....	29
“ 70 to 75 “.....	9
“ 75 to 80 “.....	6
Over 80 years.....	2
Unknown ages.....	1.88

The following comprehensive table exhibits the ages, respec-

tively, of all the parties married during the time embraced in this report :

AGES OF MALES.	AGES OF FEMALES.														Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Unknown.	
Under 20.....	110	30	5	1	1	--	--	--	--	--	--	--	--	2	149
20 to 25.....	1161	863	126	24	5	--	--	--	--	--	--	--	--	10	2189
25 to 30.....	555	696	284	42	11	5	1	--	--	--	--	--	--	11	1605
30 to 35.....	136	227	136	76	19	2	--	--	--	--	--	--	--	--	596
35 to 40.....	38	77	89	51	44	11	2	--	--	1	--	--	--	1	314
40 to 45.....	11	42	45	21	33	24	4	2	--	--	--	--	--	--	182
45 to 50.....	6	17	19	21	19	19	21	4	--	--	--	--	--	--	126
50 to 55.....	1	4	10	12	17	7	16	7	2	2	--	--	--	--	78
55 to 60.....	1	3	5	6	9	11	15	8	5	2	2	--	--	--	67
60 to 65.....	--	--	2	4	3	5	10	4	13	3	1	--	--	--	45
65 to 70.....	--	2	1	1	2	6	3	--	7	1	--	1	--	1	25
70 to 75.....	--	1	--	--	--	--	1	2	1	--	2	--	1	--	8
75 to 80.....	--	--	--	--	--	--	--	2	1	1	2	--	--	--	6
Over 80.....	--	--	--	1	--	--	--	--	--	--	--	1	--	--	2
Unknown.....	1	1	1	1	--	--	--	--	--	--	--	--	--	89	93
Total Females..	2020	1963	723	261	163	90	73	29	29	10	7	2	1	114	5485

6.63 per cent. of the males, or about 1 in 15, were married under the age of 21 years.

46.58 per cent. of the females, or nearly 1 in 2 1-5, were married before reaching the 21st year.

In Massachusetts, in 1867, but 1.6 per cent. of the males, and 19.9 per cent. of the females, were married before the age of 21 years, exhibiting a very great disparity in the two States.

TABLE I.—MARRIAGES.

Showing, by Counties, the number of Marriages in which the Races of the Parties were other than White.

COUNTIES.	RACES.	
	African.	Indian.
Bay	1	---
Berrien	9	---
Calhoun	2	---
Cass	13	---
Eaton	1	---
Emmet	---	8
Genesee	3	---
Isabella	---	6
Kalamazoo	5	---
Leelanaw	---	6
Lenawee	1	---
Midland	---	1
Oakland	5	---
Oceana	---	3
Ontonagon	---	1
Saginaw	1	---
Shiawassee	1	---
Washtenaw	4	---
Wayne	6	---
State	52	25

TABLE II.—MARRIAGES.

DISTINGUISHING, by Counties, and by Months, the number of Marriages Registered from April 5 to December 31, 1868, inclusive.

COUNTIES.	MONTHS.										No. of Marriages.
	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
Allegan	18	28	12	22	16	19	8	15	2	..	140
Alpena.....	1	1	1	---	3	5	3	4	---	..	18
Antrim.....	1	1	1	3	3	1	2	1	1	..	14
Barry	9	18	12	16	16	12	9	10	5	..	102
Bay.....	11	19	12	10	12	9	8	8	18	..	102
Berrien.....	31	35	23	38	46	37	25	18	9	..	262
Branch.....	18	25	17	15	18	20	21	22	12	..	168
Calhoun.....	22	24	17	15	17	19	27	19	9	..	169
Cass.....	6	16	14	8	12	19	20	11	7	..	113
Cheboygan....	---	1	---	---	---	---	2	4	1	..	8
Clinton.....	17	18	18	14	10	14	18	22	24	..	150
Eaton.....	14	8	10	8	7	11	12	12	6	..	88
Emmet.....	1	1	1	2	---	1	1	5	1	..	18
Genesee.....	24	19	16	14	12	24	17	12	8	..	146
Gd. Traverse..	2	7	1	5	3	7	8	8	4	..	40
Gratiot.....	6	5	5	8	6	5	9	8	12	..	64
Hillsdale....	12	20	19	23	9	21	20	30	8	..	162
Houghton....	---	8	4	5	7	6	9	10	8	1	53
Huron.....	9	6	4	4	4	3	2	5	2	..	39
Ingham.....	1	2	1	3	3	4	15	14	22	..	65
Ionia.....	9	17	13	15	16	8	19	22	9	1	129
Iosco.....	---	2	1	2	1	---	2	1	1	..	10
Isabella.....	4	4	2	7	5	4	4	3	---	..	33
Jackson.....	18	14	15	21	11	10	13	14	8	..	124
Kalamazoo...	18	17	16	15	13	21	26	23	20	1	170
Kent.....	18	29	25	33	24	44	45	47	51	1	317
Lapeer.....	15	12	5	14	7	15	9	2	8	..	87

TABLE II—CONTINUED.

COUNTIES.	MONTHS.										No. of Marriages.
	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
Leelanaw.....	2	5	2	1	8	4	4	5	2	..	88
Lenawee.....	24	12	19	30	14	28	19	21	6	2	175
Livingston.....	7	18	5	9	2	8	18	6	18	..	81
Macomb.....	16	14	10	18	12	11	14	7	10	..	107
Manistee.....	---	---	1	---	---	1	8	2	2	..	9
Marquette.....	2	2	---	2	8	17	6	5	1	..	48
Mason.....	1	2	---	4	1	8	4	1	---	..	16
Mecosta.....	4	8	2	2	4	18	5	8	2	..	88
Menominee.....	---	4	8	---	1	---	---	1	1	..	10
Midland.....	2	2	2	---	4	---	2	8	1	..	16
Monroe.....	16	9	6	10	16	16	9	7	---	..	89
Montcalm.....	9	6	5	12	8	7	7	5	4	..	58
Muskegon.....	1	---	---	8	5	6	18	11	8	..	47
Newaygo.....	1	7	4	4	8	9	6	2	5	..	41
Oakland.....	1	1	8	2	4	14	26	16	37	..	104
Oceana.....	5	6	5	6	6	6	9	8	6	..	57
Ontonagon.....	1	---	1	2	2	---	1	---	---	..	7
Ottawa.....	16	14	18	28	9	21	21	15	14	..	146
Saginaw.....	4	8	9	10	4	20	24	40	38	..	152
Sanilac.....	10	10	4	9	5	10	8	8	8	..	67
Shiawassee.....	8	9	8	16	17	18	18	5	36	..	180
St. Clair.....	28	19	10	32	24	27	22	18	11	..	191
St. Joseph.....	14	12	11	21	21	23	22	35	12	..	171
Tuscola.....	---	2	4	7	4	6	7	5	11	..	46
Van Buren.....	17	16	11	14	16	11	24	8	10	..	127
Washtenaw.....	28	28	15	18	14	19	18	20	14	..	169
Wayne.....	67	60	74	65	45	81	79	60	31	2	564
State.....	569	611	487	635	588	718	738	662	524	8	5485

SECOND REGISTRATION REPORT.

TABLE III.—CONTINUED.

COUNTIES.	NATIVITY.						AGES IN YEARS.														
	No. Couples.	American.	Foreign.	Amer. Males, and For. Females.	For. Males, and Am. Females.	Unknown.	Under twenty.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.
Meosta.....	38	21	8	4	4	1	21	26	17	2	3	8	1	1	1	2					
Menominee.....	10	8	2	1	2	2	5	6	4		2	1	1		1						
Midland.....	16	9	2	3	1	1	10	11	4	8											4
Monroe.....	89	52	24	2	9	2	25	61	55	16	5	4	4	2	8	1	2				
Montcalm.....	53	43	6	3	4	2	31	42	27	8	6	1		1							
Muskegon.....	47	19	13	3	6	1	14	24	26	7	4	6	1	1	1	2					8
Newaygo.....	41	23	5	3	4	1	26	22	19	11	2	2									
Oakland.....	104	31	3	6	10	4	34	89	43	13	12	4	2	2	1						8
Oceana.....	57	34	3	4	11		23	37	24	8	6	4	2	1	2						1
Ontonagon.....	7	1	3	1	1	1	5	7	2												
Ottawa.....	146	55	73	3	14	1	56	95	62	19	17	12	8	4	6	2					11
Saginaw.....	152	46	44	15	17	30	42	66	64	27	8	4	6	3	2	1					81
Sanilac.....	67	6	35	14	12		34	50	22	9	6	3	3	1	1	1					2
Shiawassee.....	130	97	10	9	13	1	51	105	53	23	9	9	8	3	2	1					

MARRIAGES.

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[illegible]

SECOND REGISTRATION REPORT.

TABLE IV.—MARRIAGES.

SHOWING, by Counties, the respective ages of the Males and Females, and the total number Married under the age of Twenty-one years; and also, the Whole Number of Persons Married in the State during the period from April 5th to December 31st, 1868, inclusive.

COUNTIES.	AGES OF MALES.								AGES OF FEMALES.								Total Males Married under 21 years.	Total Females Married under 21 years.	Total Males and Re- males Married under 21 years.	Whole No. of Persons Married in the State.
	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.				
Allegan.....	7	2	.....	.....	.....	.....	.....	.....	19	18	15	14	15	4	1	.....	9	86	95	280
Alpena.....	1	.....	.....	.....	.....	.....	.....	.....	1	2	1	1	2	.....	.....	.....	1	7	8	36
Antrim.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	4	.....	1	.....	.....	.....	9	9	28
Barry.....	9	1	8	.....	.....	.....	.....	.....	7	9	18	8	11	.....	.....	.....	18	53	66	204
Bay.....	8	8	.....	.....	.....	.....	.....	.....	7	9	6	7	4	1	1	.....	6	35	41	204
Berrien.....	16	6	2	.....	.....	.....	.....	.....	27	37	44	16	26	2	.....	.....	24	152	176	524
Branch.....	8	5	2	.....	.....	.....	.....	.....	15	22	31	13	8	1	.....	.....	15	90	105	386
Calhoun.....	8	2	.....	.....	.....	.....	.....	.....	25	18	8	12	7	.....	.....	.....	5	70	75	333
Cass.....	1	6	1	.....	.....	.....	.....	.....	19	8	8	13	4	2	.....	.....	8	54	62	226
Cheboygan.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	8	2	.....	1	.....	.....	1	7	8	16
Clinton.....	9	8	.....	.....	.....	.....	.....	.....	12	14	24	15	10	4	.....	.....	17	79	96	300

MARRIAGES.

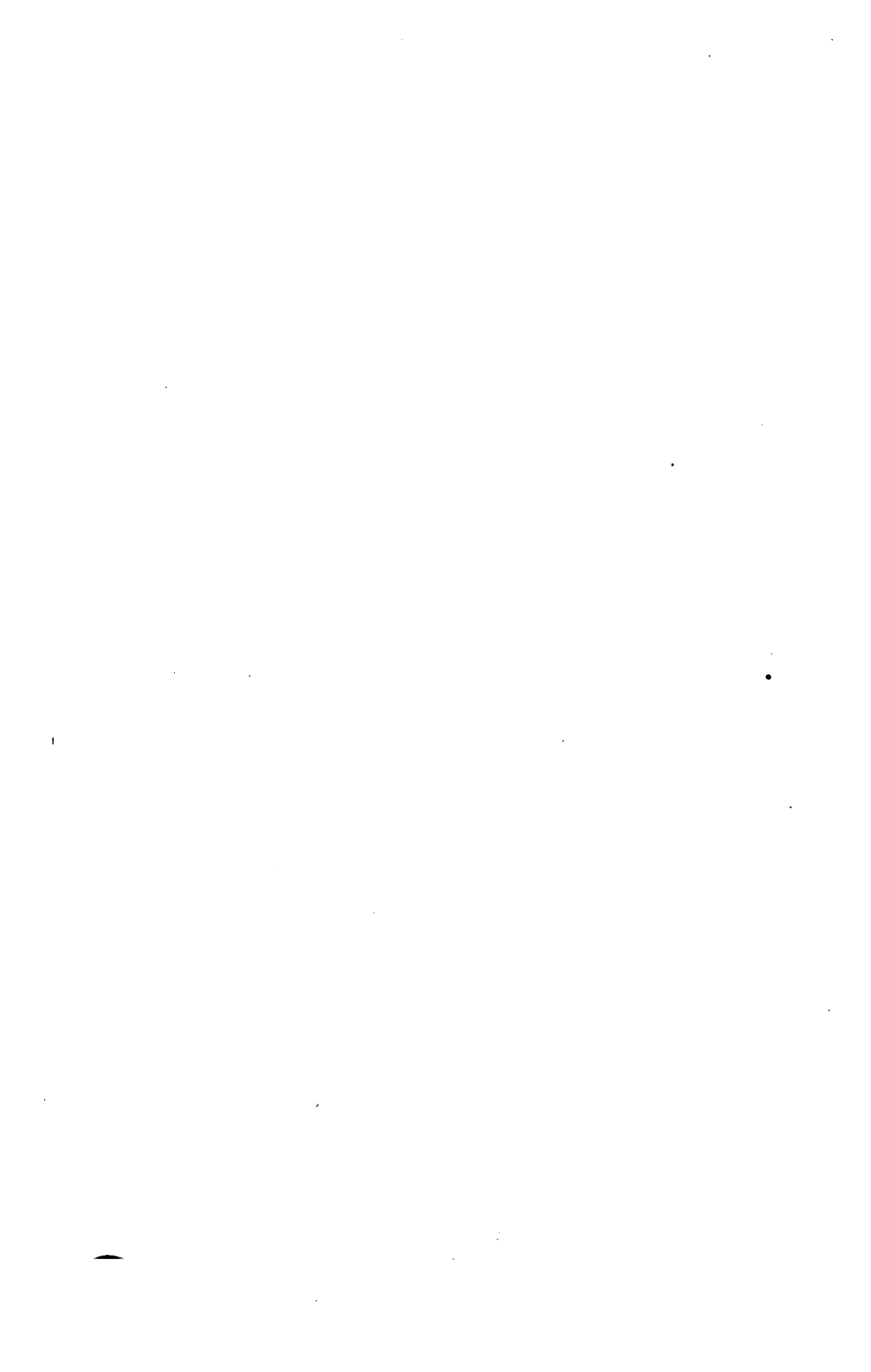
37

Eaton.....	3	2	2	1	.....	6	12	8	9	5	1	.....	7	41	48	176
Emmet.....	5	1	1	.....	.....	1	2	2	1	2	1	.....	1	7	17	26
Genesee.....	5	5	.....	2	.....	16	14	12	14	12	2	.....	.....	12	82	292
Grand Traverse.....	2	.....	1	.....	.....	7	3	5	4	3	2	.....	.....	3	24	80
Grafton.....	5	4	1	.....	.....	8	11	9	8	7	1	.....	.....	10	89	128
Hilledale.....	8	5	.....	.....	.....	16	26	16	8	3	.....	.....	.....	12	69	224
Houghton.....	1	.....	.....	.....	.....	2	7	4	3	4	2	.....	1	1	23	116
Huron.....	.....	.....	.....	.....	.....	5	2	9	4	4	.....	1	.....	.....	25	73
Ingham.....	3	1	1	.....	.....	11	4	7	5	3	.....	.....	.....	5	80	130
Ionia.....	9	2	1	.....	.....	17	17	13	12	9	2	.....	.....	12	75	253
Iosco.....	.....	.....	.....	.....	.....	1	1	.....	1	1	1	.....	.....	.....	5	20
Isabella.....	1	2	.....	.....	.....	4	6	6	3	5	.....	.....	.....	3	24	66
Jackson.....	3	2	1	.....	.....	13	9	20	1	5	1	1	.....	6	50	249
Kalamazoo.....	5	5	.....	.....	.....	13	17	20	10	8	1	.....	.....	10	69	340
Kent.....	13	4	2	.....	.....	33	35	31	23	21	2	.....	.....	19	145	634
Lapeer.....	6	1	.....	1	.....	12	11	16	6	9	.....	.....	.....	8	54	174
Leelanaw.....	3	.....	.....	.....	.....	4	3	3	4	3	2	.....	.....	3	19	66
Lenawee.....	7	6	8	.....	.....	21	17	13	12	10	1	.....	.....	16	74	320
Livingston.....	2	1	.....	1	.....	10	6	15	2	3	1	.....	.....	4	37	162
Macomb.....	5	1	1	.....	.....	10	5	17	7	3	.....	.....	.....	7	42	214
Manistee.....	.....	.....	.....	.....	.....	1	2	.....	1	.....	.....	.....	.....	.....	4	13
Marquette.....	1	.....	.....	.....	.....	.....	4	5	3	3	.....	.....	.....	1	15	86

TABLE IV—CONTINUED.

COUNTIES.	AGES OF MALES.								AGES OF FEMALES.								Total Males Married under 21 years.	Total Females Married under 21 years.	Total Males and Females Married under 21 years.	Whole No. of Persons Married in the State.	
	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.					
Mason.....	1	1	1	—	—	—	—	—	1	1	3	2	3	3	1	—	—	1	11	13	32
Mecosta.....	1	1	—	—	—	—	—	—	1	5	7	3	5	—	—	—	—	2	21	23	76
Menominee.....	—	—	—	—	—	—	—	—	—	—	2	2	1	—	—	—	—	—	5	5	20
Midland.....	—	—	—	—	—	—	—	—	2	1	3	2	3	1	—	—	—	—	12	13	32
Monroe.....	—	—	1	—	—	—	—	—	6	8	9	3	4	—	—	—	—	1	30	31	173
Montcalm.....	2	1	—	—	—	—	—	—	5	5	8	7	8	2	—	—	—	3	35	38	116
Muskegon.....	3	—	1	—	—	—	—	—	1	2	4	5	2	—	—	—	—	3	14	17	94
Newaygo.....	1	2	—	—	—	—	—	—	3	3	5	6	4	5	1	—	—	3	27	30	82
Oakland.....	4	1	1	—	—	—	—	—	13	11	13	6	4	—	—	—	—	6	47	53	208
Oceana.....	1	1	1	—	—	—	—	—	3	5	5	10	4	2	1	—	—	3	30	33	114
Ontonagon.....	—	—	1	—	—	—	—	—	2	2	—	1	—	1	—	—	—	1	6	7	14
Ottawa.....	5	—	2	—	—	—	—	—	10	17	17	10	7	3	—	—	—	7	64	71	292
Saginaw.....	1	2	2	—	—	—	—	—	7	13	10	7	7	—	1	—	—	5	45	50	304
Sanilac.....	4	—	1	—	—	—	—	—	6	12	8	9	4	2	—	—	—	5	41	46	184

Shiawassee	13	---	---	---	---	---	---	---	---	13	13	18	18	13	6	1	---	---	18	64	77	300
St. Clair	10	4	1	---	---	---	---	---	---	17	22	21	18	13	---	---	---	---	15	85	100	882
St. Joseph	8	5	1	---	---	---	---	---	---	21	23	22	9	9	1	---	---	---	9	85	94	842
Tuscola	1	2	---	---	---	---	---	---	---	1	5	8	7	2	---	---	1	---	3	24	27	92
Van Buren	6	3	---	---	---	---	---	---	---	17	13	16	6	12	8	---	---	---	9	67	76	254
Washtenaw	5	1	---	---	---	---	---	---	---	19	9	11	4	2	---	---	---	---	6	45	51	888
Wayne	15	7	1	---	---	---	---	---	---	50	67	45	27	22	---	---	---	---	23	211	234	1,128
State	217	105	37	5	---	---	---	---	---	538	599	631	395	331	53	8	2	864	2,535	2,919	10,970	



CAUSES OF DEATH.

In preparing the following tables no pains have been spared to make them as accurate and complete as possible, and should not be looked upon merely as ingeniously arranged figures. From such tables we can mark the progress of civilization, morals, and sanitary condition, by comparing them with tables of other periods and other localities. Such tables, accurately prepared, were the means by which, in New York City, the mortality of children under one year of age was reduced 99 from 1856 to 1863, while the increase of population during the same period was 350,000.

From the mortality tables of Geneva, Switzerland, it appears that, at the time of the Reformation, one-half the children born, died within the 6th year; in the seventeenth century, not until the 27th year; showing that five children born there, would reach maturity where but one would have arrived at that age, if born three centuries before.

Mr. Milne, the author of the Carlisle Life Tables, ascertained that in the 50 years ending in 1844, the *rate of mortality decreased 22 per cent.* in Carlisle and its vicinity.

Macauley, in his history of England, shows the difference between London of the 19th and London of the 17th century to be greater than the difference between London in ordinary years and London in the cholera year, there being upwards of 50 per cent. less mortality in the latter century.

Seventy-six more deaths are given in this report than in that of last year, but there are 111 less cases of consumption, which presents a very gratifying exhibit for this State, as one favorable for consumptives, and coincides with the statistical

records kept in different States during the war, of those rejected as unfit for military service on account of phthisis, which proved the percentage less in Michigan than in any other State.

Consumption, occurring as it does, with marked uniformity throughout the civilized world, in countries differing so widely in all their physical aspects, and the inhabitants, as classes, so differently employed, and enjoying different degrees of social and mental culture, an attempt to point out any particular law of nature as an essential and common cause, would, perhaps, be too near conjecture to receive universal sanction, so numerous and varying are the exceptions to any particular theory, however worthy it may be of our study.

The whole number of deaths was 6,326; of which 3,384 were males, 2,915 were females, and 27 sex not stated; making an aggregate of 76 greater for this nine months' report than for the whole year given in the previous report. But this increase of deaths is accounted for from the fact that the city of Detroit, the county of Saginaw, and some smaller counties, and parts of counties not returned for last year's report, are comprised in this.

Of the 6,326 persons deceased, 5,009 were of American birth, 1,047 of foreign birth, and 270 whose nativity was unknown or not returned.

For a detailed statement of nativities, by counties, see Table I of Deaths.

As shown in Table II, 92 Africans, or colored persons deceased; 60 males and 32 females—also, 43 Indians; 26 males and 17 females.

Table II also specifies the number of Africans and Indians who deceased in each county during the period embraced in this report.

TABLE I.—DEATHS.

NATIVITY of Persons who have Died, from April 5, 1868, to December 31, 1868, inclusive.

COUNTIES.	AMERICAN.	FOREIGN.	UNKNOWN.	TOTAL.
Allegan.....	181	82	12	175
Alpena.....	9	2	-----	11
Antrim.....	16	2	1	19
Barry.....	74	7	5	86
Bay.....	61	21	5	87
Berrien.....	119	22	10	151
Branch.....	117	4	10	131
Calhoun.....	165	24	15	204
Cass.....	91	6	5	102
Cheboygan.....	4	-----	-----	4
Charlevoix.....	5	1	-----	6
Clinton.....	182	18	2	147
Eaton.....	95	5	4	104
Emmet.....	24	-----	1	25
Genesee.....	128	16	7	151
Grand Traverse.....	18	8	1	22
Gratiot.....	80	4	4	88
Hillsdale.....	188	11	5	149
Houghton.....	48	25	3	76
Huron.....	28	14	-----	42
Ingham.....	94	12	2	108
Ionia.....	119	12	10	141
Iosco.....	11	-----	-----	11
Isabella.....	18	1	3	22
Jackson.....	181	16	8	155
Kalamazoo.....	188	38	16	187
Kent.....	183	37	13	233
Lapeer.....	56	21	5	82
Leelanaw.....	32	8	-----	40

TABLE III—CONTINUED.

COUNTIES.	MALES—AGES IN YEARS.																Total.
	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five.	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine.	Ninety.	Ninety-one.	Ninety-two.	Ninety-three.	Ninety-four.	One hundred and ten.	
Oakland.....	1	—	—	1	—	1	1	—	1	—	—	—	—	—	—	—	5
Ottawa.....	—	1	1	—	—	1	—	—	—	—	—	—	—	—	—	—	3
Saginaw.....	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	2
Shiawassee.....	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
St. Clair.....	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	2
St. Joseph.....	1	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	3
Van Buren.....	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	—	2
Washtenaw.....	—	—	—	—	—	2	—	1	—	—	—	—	—	—	—	—	3
Wayne.....	—	1	3	2	3	—	3	—	2	—	1	1	—	—	—	—	16
State.....	9	11	15	12	13	8	6	5	9	8	4	2	1	2	1	1	103

One hundred and two males died above the age of eighty years. The diseases or causes of death were as follows:

Old age, 61; consumption 5; dropsy, 5; paralysis, 4; cephalitis, 2; suicide, 2; pneumonia, 2; congestion, 2; heart disease, 2; accident, 2; dysentery, 2; and cancer, sun-stroke, typhoid fever, bowel disease, inflammation, apoplexy, gravel, hemorrhage of bladder, asthma, mortification, and cancer, 1 each; and 2, causes not given. Their occupations were returned as: Farmers, 72; carpenters, 4; paupers 2; mason, wheelright, gardener, gunsmith, blacksmith, Indian hunter, laborer, and mechanic, 1 each; and 16, occupations unknown.

TABLE IV—CONTINUED.

COUNTIES.	FEMALES—AGES IN YEARS.																		Total.
	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five.	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine.	Ninety.	Ninety-one.	Ninety-two.	Ninety-four.	Ninety-five.	Ninety-seven.	Ninety-eight.	One hundred and six.	
Muskegon							1												1
Oakland					1	1													2
Ottawa										1									1
Saginaw	1			1					1	1									4
Sanilac								1											1
St. Clair						1													1
St. Joseph	1																		1
Tuscola						1													1
Washtenaw	1	1						1											3
Wayne	1	1	1	1			1	1				1	1		1				9
State	14	5	14	7	7	7	7	5	7	4	2	8	8	2	2	1	1	1	92

The number of females who died above the age of eighty years, was 92, and their causes of death were returned as follows:

Old age, 61; dropsy, 6; consumption, 6; typhoid fever, 3; remittent fever, inflammation of stomach, congestion of lungs, erysipelas, cancer, congestive chills, bilious fever, ague and fever, heart disease, paralysis, hydrocephalus, and diarrhoea, 1 each; causes unknown, 4. Five were returned as farmers, 1 as weaver, 1 as tailoress, and 1 as housekeeper.

The following statement gives detailed particulars regarding the oldest man and oldest woman in each county, who died during the period of time comprised in this report.

The two oldest persons whose deaths were chronicled, were—James Davis, born in Vermont, died in Newaygo county, aged 109 years, 11 months and 2 days. Catharine O'Brien, born in Ireland, died in Marshall, Calhoun county, aged 106 years and 2 months.

STATEMENT,

Naming the Oldest Man and the Oldest Woman, in each County, who Died between April 5, 1868, and December 31, 1868, with their Occupation when returned, Nativity, Residence at the time of Decease, Date of Death, Cause of Death, and Ages in years, months and days, with the whole number of Deaths returned from each County.

ALLEGAN—John Thayer, farmer, born in the State of New York, died of old age in Casco, Oct. 25, 1868, aged 88 years. Serapta Haywood, born in Vermont, died of old age in Cheshire, August 14, 1868, aged 82 years, 11 months and 14 days. One hundred and seventy-five deaths in the county.

ALPENA—James Millan, laborer, born in Ireland, died of consumption, in Alpena, December 30, 1868, aged 61 years. Olivia A. Spratt, born in Maine, died of child-birth, in Alpena, July 7, 1868, aged 28 years. Eleven deaths in the county.

ANTRIM—Shabordone, (Indian,) born in Grand Traverse, died in Milton, April 25, 1868, aged 70 years, disease and occupation not given. Isabella McBeath, born in Scotland, died of old age, in Helena, September 4, 1868, aged 97 years and 11 months. Nineteen deaths in the county.

BARRY—Richard Young, farmer, born in Pennsylvania, died in Carleton, of old age, September 4, 1868, aged 85 years. Susannah Freeman, born in New York, died of old age, in Thorn Apple, September 12, 1868, aged 82 years, 5 months, and 24 days. Eighty-six deaths in the county.

BAY—John McPhail, born in Canada, died of bowel disease, at Poor-House, April 7, 1868, aged 68. Mary Bard, born in Vermont, died of old age, in Bay City, April 12, 1868, aged 87 years. Eighty-seven deaths in the county.

BERRIEN—Samuel Torbert, born in Pennsylvania, died of old age, in St. Joseph, May 1, 1868, aged 81 years. Deborah Haywood, born in Connecticut, died of old age, in Benton, October 27, 1868, aged 87 years, 7 months, and 5 days. One hundred and fifty-one deaths in the county.

BRANCH—Martin Fillapau, farmer, born in New York, died of dropsy, in Bronson, May 23, 1868, aged 88 years, 11 months, and 27 days. Margaret Van Orsdale, died of old age, in Quincy, June 9, 1868, aged 94 years. One hundred and thirty-one deaths in the county.

CALHOUN—Christian Bochman, farmer, born in Tennessee, died of old age, in Marengo, December 29, 1868, aged 82 years and 2 months. Catharine O'Brien, born in Ireland, died of old age, in Marshall, April 1, 1868, aged 106 years and 2 months. Two hundred and four deaths in the county.

CASS—William R. Fitch, farmer, born in Vermont, died of sun-stroke, in Mason, July 18, 1868, aged 87 years and 6 months. Achsah Warner, born in Massachusetts, died of congestion of the lungs, in Volinia, June 11, 1868, aged 81 years, 7 months, and 12 days. One hundred and two deaths in the county.

CHARLEVOIX—Almon M. Ingalls, clerk, born in New York, died in Illinois, of diarrhœa, October 10, 1868, aged 29 years, 2 months, and 8 days. Agnes Graham, born in Ireland, died June 7, 1868, aged 66 years, 11 months, 18 days. Disease and place of death not returned. Six deaths in the county.

CHEBOYGAN—Four deaths in the county, all under 5 years.

CLINTON—Fletcher Jenison, farmer, born in New York, died of old age, in Eagle, July 3, 1868, aged 88 years. Sarah Holden, weaver, born in New York, died of old age, in Olive,

July 13, 1868, aged 89 years, 11 months, and 24 days. One hundred and forty-seven deaths in the county.

EATON—William Lowell, farmer, born in Vermont, died of old age, in Eaton Rapids, April 25, 1868, aged 82 years, 8 months. Betsey Spaulding, born in New Hampshire, died of consumption, in Roxand, May 4, 1868, aged 75 years, 2 months, and 15 days. One hundred and four deaths in the county.

EMMET—John Madjiwijiwe, Indian hunter, died of old age, in Little Traverse, December 18, 1868, aged 90. Angelique Wabodjig, Indian, born in Emmet county, died of old age, in Little Traverse, Sept. 30, 1868, aged 71. Twenty-five deaths in the county—all were Indians.

GENESEE—John Hart, carpenter, born in England, died of pneumonia, in Mount Morris, Dec. 28, 1868, aged 81 years, 9 months, and 14 days. Cynthia Vincent, born in Connecticut, died of consumption, at Flint, April 28, 1868, aged 86. One hundred and fifty-one deaths in the county.

GRAND TRAVERSE—Nelson Andrew, farmer, born in Sweden, killed by fall of a tree, in Grant, December 30, 1868, aged 40 years, 9 months, and 27 days. Rosina Swaney, born in Pennsylvania, killed by threshing machine, in Peninsula, Sept. 2, 1868, aged 58 years, 1 month, and 23 days. Twenty-two deaths in the county.

GRATIOT—Michael Eggan, farmer, born in Ireland, died Dec. 8, 1868, aged 89 years, 2 months, and 21 days; cause of death, and residence, not given. Sophia Parmer, tailoress, born in Massachusetts, died of dropsy, in Arcada, Sept. 17, 1868, aged 82 years and 2 months. Thirty-eight deaths in the county.

HILLSDALE—Barnard Cass, farmer, born in New Hampshire, died of old age, in Woodbridge, August 1, 1868, aged 93 years, 5 months, and 26 days. Rose A. Wood, born in New York, died of old age, in Scipio, June 22, 1868, aged 96 years, 10 months, and 13 days. One hundred and forty-nine deaths in the county.

HOUGHTON—John Sullivan, laborer, born in Ireland, killed in Calumet, September 16, 1868, aged 60 years and 3 months. Mary Dunn, housekeeper, born in Ireland, died of consumption, October 15, 1868, aged 48 years. Place of death not returned. Seventy-six deaths in the county.

HURON—Reuben Dodge, laborer, born in Maine, died of fever-sore, in Caseville, October 1, 1868, aged 73. Johannes Christina Wenchky, born in Prussia, died of stomach disease, October 30, 1868, aged 57 years, 8 months, and 11 days. Residence not given. Forty-two deaths in the county.

INGHAM—George Reason, born in England, died of old age, in Stockbridge, April 1, 1868, aged 87. Hannah Horton, born in Massachusetts, died of cancer, in Mason, September 2, 1868, aged 94 years, 4 months, and 16 days. One hundred and eight deaths in the county.

IONIA—Burk Gibbs, died of old age, in Port Huron, Sept. 17, 1868, aged 84. Nativity and occupation not returned. Lucy A. Donovan, born in Vermont, died of old age, in Boston, Mich., June 11, 1868, aged 87 years, 8 months, and 5 days. One hundred and forty-one deaths in the county.

IOSCO—David Fox, laborer, born in New York, died of paralysis, in Alabaster, Nov. 10, 1868, aged 78 years, 8 months, and 4 days. No woman died. Eleven deaths in the county.

ISABELLA—Hugh McCully, farmer, born in Ireland, died of disease of the bowels, in Vernon, April 13, 1868, aged 60 years, 2 months, and 11 days. Electa Davis, born in Vermont, died of epilepsy, in Coe, Sept. 21, 1868, aged 73 years, 6 months, and 4 days. Twenty-two deaths in the county.

JACKSON—Asael King, farmer, died of old age, in Rives, April 4, 1868, aged 86 years. Nativity not given. Roxana Snow, born in Connecticut, died of old age, in Sandstone, December 11, 1868, aged 89 years. One hundred and fifty-five deaths in the county.

KALAMAZOO—James Coats, farmer, born in England, died of pneumonia, in Prairie Ronde, April 27, 1868, aged 87 years, and 7 months. Mrs. Moffatt, born in Massachusetts, died of old age, in Kalamazoo, Sept. 22, 1868, aged 91 years, 1 month, and 1 day. One hundred and eighty-seven deaths in the county.

KENT—Jedediah Riggs, farmer, born in Connecticut, died of old age, in Ada, July 7, 1868, aged 91 years, 11 months, and 30 days. Sally Nichols, born in Vermont, died of old age, in Algoma, August 27, 1868, aged 85 years, 8 months, and 2 days. Two hundred and thirty-three deaths in the county.

LAPEER—James P. Pitcher, farmer, born in Vermont, died of heart disease, in Elba, November, 1868, aged 82 years. Catharine Reardon, born in Ireland, died of consumption, in Dryden, August 13, 1868, aged 82 years. Eighty-two deaths in the county.

LEELANAW—Adam Rikard, farmer, born in New York, died of old age, in Centreville, November, 1868, aged 74 years. Madaline Stimel, born in Germany, died of old age, in Bingham, August 18, 1868, aged 85 years. Forty deaths in the county.

LENAWEE—Ezra Thomas, farmer, born in New York, died of old age, in Fairfield, October 18, 1868, aged 94 years. Anna Smead, born in Massachusetts, died of old age, in Adrian, August, 1868, aged 94 years. Two hundred and twelve deaths in the county.

LIVINGSTON—Walter Wright, farmer, born in New York, died of old age, August 11, 1868, in Unadilla, aged 85 years. Salona Stone, born in New York, died of old age, in Deerfield, December 17, 1868, aged 87 years, 6 months, and 20 days. Seventy-two deaths in the county.

MACOMB—Henry Baker, pauper, born in New York, died of old age, in Clinton, April 16, 1868, aged 90 years. Elizabeth Hamilton, born in Scotland, died of old age, in Bruce, June

22, 1868, aged 83 years, 11 months, and 20 days. One hundred and fifty-three deaths in the county.

MANISTEE—Connel Gallaher, farmer, born in Ireland, died of consumption, in Bear Lake, June 30, 1868, aged 72 years, 6 months, and 7 days. Antoinette Farnsworth, born in Michigan, died of typhoid fever, in Brown, August 25, 1868, aged 36 years. Forty-seven deaths in the county.

MARQUETTE—O. F. Swinson, laborer, born in Sweden, died of accident, in Ishpeming, November 25, 1868, aged 50 years. Mary Edmundson, born in Ireland, died of old age, in Ishpeming, August 7, 1868, aged 75 years. Fifty-five deaths in the county.

MASON—Lawrence Whitaker, farmer, born in New York, died of consumption, in Victory, Nov. 25, 1868, aged 68 years. Lucy A. Smith, born in Michigan, died of intermittent fever, in Victory, September 6, 1868, aged 35 years, 6 months, and 7 days. Fifty-five deaths in the county.

MECOSTA—Dr. Thos. Owen, born in New York, died from accident, in Big Rapids, August 11, 1868, aged 89 years. Hannah Hyde, born in New York, died of old age, in Big Rapids, December 28, 1868, aged 86 years. Thirty-eight deaths in the county.

MENOMINEE—Philip Hoeguarts, carpenter, born in Lower Canada, died from a fall, in Menominee, Nov. 8, 1868, aged 26 years and 2 months. Margaret Schultz, born in Germany, died of consumption, in Menominee, April 4, 1868, aged 46 years, 1 month, and 9 days. Eight deaths in the county.

MIDLAND—John Hurlbert, farmer, born in Vermont, died of consumption, in Jasper, December 19, 1868, aged 70 years, 2 months, and 20 days. Mrs. John McCartney, born in Ireland, died of consumption, in Midland City, Aug. 18, 1868, aged 59 years and 2 months. Eight deaths in the county.

MONROE—Peter Corcoran, farmer, born in Ireland, died of gravel, in Ash, Aug. 5, 1868, aged 88 years. Grace Mortimore,

born in England, died of old age, in Whiteford, August 13, 1868, aged 88 years. One hundred and sixteen deaths in the county.

MONTCALM—Martin Pierson, joiner, born in New York, died of consumption, in Pierson, Nov. 6, 1868, aged 79 years, 5 months, and 23 days. Sarah Winchell, born in Vermont, died of old age, in Sidney, Sept. 21, 1868, aged 88 years. Sixty deaths in the county.

MUSKEGON—John Squires, farmer, born in New York, died of typhoid fever, Oct. 17, 1868, aged 76 years, 4 months, and 3 days. Martahable Stevens, born in Connecticut, died of old age, in Eggleston, Sept. 28, 1868, aged 86 years. One hundred and sixty-four deaths in the county.

NEWAYGO—James Davis, laborer, born in Vermont, died of old age, in Ashland, December 3, 1868, aged 109 years, 11 months, and 2 days. Sophia Scranton, born in Vermont, died of heart disease, in Big Prairie, July 2, 1868, aged 73 years. Forty deaths in the county.

OAKLAND—John T. Wilcox, farmer, born in England, died of dropsy, in Farmington, July 12, 1868, aged 87 years, 8 months, and 10 days. Abigail Stone, born in Vermont, died of old age, in Commerce, Dec. 13, 1868, aged 85 years. One hundred and sixty-seven deaths in the county.

OCEANA—Horace S. Pitcher, farmer, born in Connecticut, died of dropsy, in Benona, October 3, 1868, aged 69 years, 6 months, and 18 days. Margaret Knapp, housekeeper, born in Canada, died of old age, in Shelby, May 20, 1868, aged 71 years. Forty-two deaths in the county.

ONTONAGON—William Buck, laborer, born in Ireland, died at Rockland, of diabetes, May 21, 1868, aged 48 years. Mary Burns, born in Ireland, died of asthma, in Rockland, October 9, 1868, aged 70 years and 7 months. Fifteen deaths in the county.

OTTAWA—Orange McClure, mason, died of old age, at Wright, December 26, 1868, aged 85 years. Nativity not re-

turned. Susan Farwell, born in Connecticut, died of old age, in Holland, Mich., Sept. 17, 1868, aged 88 years and 11 months. One hundred and sixty-nine deaths in the county.

SAGINAW—Curtis Day, carpenter, born in New York, died of dysentery, in Chapin, Sept. 12, 1868, aged 84 years and 5 months. Jenny Carter, born in New York, died of old age, in South Saginaw, Aug. 25, 1868, aged 89 years, 1 month, and 8 days. Two hundred and fifty deaths in the county.

SANILAC—Robert Booth, farmer, born in Ireland, killed by mill car, in Washington, Mich., Sept. 30, 1868, aged 67 years. Margaret Donald, born in England, died of old age, in Marlett, April 16, 1868, aged 87 years, 3 months, and 16 days. Forty deaths in the county.

SHIAWASSEE—William Kenney, mechanic, born in Connecticut, died of paralysis, in Perry, August 7, 1868, aged 81 years. Laura Wheelock, born in Connecticut, died of old age, in Corunna, Dec. 18, 1868, aged 75 years. One hundred and twenty-one deaths in the county.

ST. CLAIR—Robert Glassford, farmer, born in the United States, died of old age, in Muzzey, Nov. 25, 1868, aged 83 years and 6 months. Mary Bullamy, born in England, died of old age, in the city of St. Clair, June 25, 1868, aged 85 years and 25 days. One hundred and ninety-four deaths in the county.

ST. JOSEPH—John Schraman, carpenter, born in Germany, died of mortification, in Sherman, August 24, 1868, aged 88 years, 5 months, and 11 days. Mrs. Blue, born in Pennsylvania, died of dropsy, in Park, July 18, 1868, aged 80 years. One hundred and twenty-nine deaths in the county.

TUSCOLA—Ira Pratt, farmer, born in New York, died of pneumonia, in Juniata, September 6, 1868, aged 78 years, 10 months, and 26 days. Keturah A. Clark, born in New York, died of old age, in county poor-house, May 20, 1868, aged 85. Seventy-three deaths in the county.

VAN BUREN—William Thompson, farmer, born in Connecticut, died of consumption, in Pine Grove, May 22, 1868, aged 93 years, 3 months, and 2 days. Deborah Rhodes, born in Connecticut, died of typhoid fever, in Columbia, October 14, 1868, aged 78 years. One hundred and thirty-two deaths in the county.

WASHTENAW—Patrick Hagerty, wheelwright, born in Ireland, died of old age, in Lyndon, May 17, 1868, aged 87 years. Mary Sherwood, born in Ireland, died of old age, in Superior, October 21, 1868, aged 86 years, 9 months, and 20 days. One hundred and seventy-four deaths in the county.

WAYNE—Richard Benton, farmer, born in England, died of old age, in Monguagon, April 10, 1868, aged 91 years. Charlotte Charboney, born in Detroit, died of dropsy, in Detroit, Dec. 4, 1868, aged 95 years. One thousand and seventy-six deaths in the county.

WEXFORD—Thomas D. Copley, farmer, born in Michigan, died of disease contracted in United States service, in Wexford, July 6, 1868, aged 32 years. Martha Pratt, birth-place not returned, died a suicide from insanity, in Wexford, Nov. 26, 1868, aged 38 years, 4 months, and 1 day. Seven deaths in the county.

TABLE V.

EXHIBITING, by Sex and Age, the number and percentage of Deaths from all causes, from April 5, 1868, to December 31, 1868, inclusive.

AGE.	Males.	Females.	Unknown.	PER CENT. OF THE SEXES.			Per Cent. of whole No. of Deaths.
				Males.	Females.	Unknown.	
Under 5 years.....	1,401	1,159	12	54.47	45.06	.47	41.27
5 to 10 ".....	146	113	-----	56.87	48.68	-----	4.16
10 to 15 ".....	99	98	-----	51.56	48.44	-----	3.08
15 to 20 ".....	133	156	-----	46.08	58.97	-----	4.64
20 to 30 ".....	317	310	-----	50.56	49.44	-----	10.06
30 to 40 ".....	208	226	-----	47.98	52.07	-----	6.96
40 to 50 ".....	202	158	-----	56.11	48.89	-----	5.78
50 to 60 ".....	219	161	-----	57.68	42.37	-----	6.10
60 to 70 ".....	265	173	-----	60.50	39.50	-----	7.08
70 to 80 ".....	198	188	1	58.75	40.95	.80	5.41
80 and over.....	100	94	-----	51.55	48.55	-----	3.11
Unknown.....	73	75	2	48.66	50.00	1.84	2.40
State.....	3,361	2,856	15	58.98	45.88	00.24	100.00

Last year it was noted as a surprising fact, that 34.43 per cent., or "more than one-third of the whole number of deaths reported, were those of children under five years of age." The present report, comprising returns from a much larger population, shows that 41.27 per cent. of the deaths were those of children under 5 years of age; an increase of nearly 7 per cent. More than two-fifths of the children born in the State, die under five years. Less than fifty-nine out of every one hundred children born alive, reach the fifth year of existence.

TABLE VI.—DEATHS.

SHOWING, by Counties and by months, the Number, Sex and Age, in years, of those who died from April 5th to December 31st, 1888, inclusive.

COUNTIES.	DEATHS.		MONTHS.												AGES.													
	SEX.		Total.	Unknown.	Male.	Female.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
State.....	3884	2215	27	6326	486	508	482	747	983	1041	776	602	668	88	2584	257	204	235	640	444	387	381	446	386	194	188		
Allegan.....	88	86	1	175	11	11	8	20	28	39	25	19	19	---	68	7	5	14	16	16	11	12	9	13	7	2		
Alcona.....	5	6	---	11	---	1	1	1	8	2	1	---	2	---	6	1	1	---	2	---	---	---	---	---	---	---	---	
Antrim.....	10	9	---	19	1	---	---	2	6	4	1	2	3	---	8	1	---	1	4	1	---	---	---	---	---	---	---	
Barry.....	43	42	1	86	3	7	5	7	8	19	14	11	12	---	26	4	4	8	5	5	3	9	6	9	2	5		
Bay.....	40	47	---	87	10	5	6	13	15	16	11	7	8	1	52	1	4	1	9	8	8	2	2	---	1	4		
Berrien.....	72	79	---	151	5	11	8	18	26	30	27	15	11	---	60	4	3	9	25	10	11	5	10	6	5	8		
Branch.....	68	64	4	131	10	16	13	8	14	24	19	18	9	---	41	7	6	7	15	5	8	15	11	9	7	---		
Calhoun.....	114	90	---	204	24	17	13	18	34	33	23	18	23	1	73	1	7	9	24	12	16	13	17	14	7	11		
Cass.....	55	47	---	102	7	9	7	11	10	17	15	12	13	1	44	4	2	2	11	10	3	12	7	4	8	---		

DEATHS.

[illegible]

SECOND REGISTRATION REPORT.

TABLE VI—CONTINUED.

COUNTIES.	DEATHS.			MONTHS.												AGES.											
	SEX.			Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.	
	Male.	Female.	Unknown.																								
Macomb.....	71	82	153	20	12	13	18	24	20	11	19	16	56	6	5	5	22	5	6	18	14	8	8	80 and over.			
Manistee.....	28	24	47	8	2	6	8	9	10	4	6	4	29	1	1	2	6	4	1	1	1	1	1	1	1		
Marquette.....	81	24	55	8	8	6	10	6	11	2	4	10	36	1	---	2	8	8	2	1	---	2	---	---	1		
Mason.....	32	22	55	8	2	2	5	5	20	6	4	7	1	38	4	2	2	1	4	1	---	2	---	---	1		
Mecosta.....	24	14	38	---	2	6	2	9	2	6	5	6	---	21	1	1	2	1	5	---	1	2	2	2	2		
Menominee.....	5	8	8	1	---	1	---	---	2	1	2	1	4	---	1	1	1	1	1	1	---	---	---	---	---		
Midland.....	5	8	8	2	---	---	---	2	1	1	---	1	1	2	---	---	---	---	---	1	1	2	---	---	1		
Monroe.....	67	49	116	6	13	6	10	15	15	14	16	20	1	45	6	1	5	14	8	2	10	15	2	8	5		
Montcalm.....	40	20	60	4	8	8	9	16	6	7	9	8	---	31	1	1	2	3	6	5	5	8	2	1	---		
Muskegon.....	91	73	164	9	6	6	21	43	30	21	14	13	1	92	9	8	7	15	8	9	8	6	1	1	5		
Newaygo.....	25	15	40	2	2	5	6	5	5	5	8	7	5	---	14	8	3	5	4	1	2	2	1	2	1		
Oakland.....	86	90	1 167	16	13	10	23	18	21	30	15	18	8	50	2	3	7	14	15	12	16	16	18	7	12		

DEATHS.

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Oceana.....	23	20	42	4	2	2	4	8	5	6	8	8	20	1	8	4	8	6	1	4
Ontonagon	6	9	15	1	2	8	8	1	2	8	6	2	2	1	1	2	1
Ottawa.....	83	86	169	7	23	19	24	24	29	19	9	16	80	7	9	9	16	10	6	6	12	7	4
Saginaw	151	99	250	14	23	18	27	56	89	29	15	80	123	18	7	17	17	20	15	5	18	5	4
Sanilac.....	21	19	40	5	4	1	2	1	9	4	7	7	18	2	.....	4	4	2	8	2	4	.....	1
Shiawassee	58	63	121	8	10	9	15	22	18	20	8	11	41	9	1	6	18	10	18	7	9	8	1
St. Clair	105	88	194	16	21	28	11	18	23	32	25	20	73	15	11	4	23	9	12	14	19	6	6
St. Joseph.....	70	59	129	6	8	12	18	17	25	12	19	8	4	47	4	6	17	7	5	9	7	11	4
Tuscola.....	48	25	78	5	7	11	6	18	13	9	2	8	80	8	8	2	8	6	8	8	5	7	1
Van Buren.....	73	59	182	8	8	6	11	17	30	24	7	19	2	46	8	2	4	15	8	9	6	14	2
Washtenaw.....	100	74	174	18	21	10	23	18	38	16	16	23	1	54	5	9	10	21	16	10	14	11	6
Wayne	599	475	1076	116	77	82	185	180	115	100	88	181	2	550	88	36	85	62	67	56	47	45	29
Wexford.....	8	4	7	.....	.....	1	1	.....	8	1	1	.....	8	1	.....	.....	8	.....	.....	.....	.....	.....	.....

TABLE VII.—CAUSES OF
EXHIBITING, by Month, by Age and Sex, the Registered No. of Deaths
[Still-births not

DEATHS.				MONTHS.											
	Sex.			Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
	Males.	Females.	Unknown.												
State.....	8884	2915	27	6826	486	508	482	747	988	1041	776	602	668	88	
Males.....															
Females.....		4		4			1				1	1	1		
Males.....	6				2	1			1	1		1			
Females.....		7		18		1	1	1	2	1	1				
Males.....	1			1								1			
Females.....															
Males.....															
Females.....	2			2						1			1		
Males.....	19				4	2	4	2	1	1	1	4			
Females.....		18		87	2	1	2	8	2	2	2	8	1		
Males.....	7								2	1		2	2		
Females.....		2		9							1	1			
Males.....	21				1		1	8	7	4	1	2	2		
Females.....		12		88		1	2	1	8	8	1		1		
Males.....	12				1	1	1	2	8	2	1	1			
Females.....		6		18	1		1			1	1	1	1		
Males.....	2					1						1			
Females.....		1		8					1						
Males.....	8				1							1	1		
Females.....		4		7	1		1			1		1			
Males.....	28				2	8		1	4	1	8	7	2		
Females.....		18		41	2		2	2	1	1	8	8	4		
Males.....	140				6	5	19	18	16	26	24	18	11	2	
Females.....		18		158	1		2	8	2	4		1			

DEATH,—ALPHABETICAL ARRANGEMENT.

*from Specified Causes, from April 5th to December 31st, 1868, inclusive.
included.]*

CAUSES of DEATH.	Ages.											
	Under 5 yrs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
	2584	257	204	285	640	444	367	381	446	386	194	188
Abortion.....												
“					2	1	1					
Abscess.....		2				1			2	1		
“					1	2	1	1	2			
Amputation.....						1						
“												
Anæmia.....												
“								1	1			
Apoplexy.....					1	1	3	8	5	5	1	
“	1					4	4	4	3	2		
Asthma.....						1		1	2	2	1	
“								1		1		
Bowels, Disease of.....	8			1		1	2	5	3			1
“	6			1	3	1					1	
Brain, “	8		1		1		1		1			
“	5	1										
Brain, Softening of ..									1	1		
“						1						
Bronchitis.....	1						1	1				
“				1	1	1	1					
Burns and Scalds.....	18	3	1				1					
“	10	3	1	2	1		1					
Casualty.....	18	16	7	10	29	16	15	15	10	8	2	4
“	1	2		2	1		1	1	5			

TABLE VII.—CAUSES OF DEATH—

DEATHS.				MONTHS.											
	SEX.			April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		
	Males.	Females.	Unknown.											Total.	
Males.....	25	-----	-----	3	-----	-----	5	3	7	3	3	3	-----		
Females....	-----	49	-----	3	5	7	4	5	4	7	3	11	-----		
Males.....	1	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----		
Females....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Males.....	117	-----	-----	11	8	11	12	23	22	13	9	8	-----		
Females....	-----	105	-----	10	8	5	18	14	14	15	12	9	-----		
Males.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Females....	84	-----	-----	6	10	9	10	12	11	3	6	12	-----		
Males.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Females....	1	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----		
Males.....	42	-----	-----	-----	1	-----	12	12	12	3	1	1	-----		
Females....	-----	32	-----	-----	-----	1	9	9	6	3	1	1	2		
Males.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Females....	-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1		
Males.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Females....	-----	2	-----	-----	1	-----	-----	-----	-----	1	-----	-----	-----		
Males.....	32	-----	-----	2	2	-----	2	3	3	4	3	3	-----		
Females....	-----	31	-----	2	1	-----	3	4	3	6	5	2	-----		
Males.....	424	-----	-----	46	42	30	46	49	50	43	54	47	2		
Females....	-----	417	-----	36	65	33	34	47	43	43	43	53	5		
Males.....	52	-----	-----	3	4	6	11	11	5	2	6	4	-----		
Females....	-----	39	-----	5	3	1	9	3	2	1	7	3	-----		
Males.....	40	-----	-----	1	5	2	2	5	5	7	6	7	-----		
Females....	-----	24	-----	3	1	2	-----	2	6	3	2	5	-----		
Males.....	1	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----		
Females....	-----	1	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----		
Males.....	18	-----	-----	-----	1	1	2	3	2	2	-----	2	-----		
Females....	-----	19	-----	-----	2	3	-----	1	4	5	3	1	-----		
Males.....	133	-----	-----	5	2	5	30	34	41	11	1	3	1		
Females....	-----	116	-----	2	1	2	25	32	33	12	3	1	-----		

ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSES of DEATH.	AGES.										
	Under 5 yrs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.
Cancer	8	-----	-----	1	-----	1	1	4	11	8	1
“	8	-----	-----	1	2	8	6	11	17	8	1
Carbuncle	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----
“	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cephalitis	74	6	5	6	4	7	4	5	-----	8	2
“	67	12	4	4	5	5	1	4	1	1	-----
Child-birth	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
“	-----	-----	-----	4	41	25	11	-----	-----	-----	8
Cholera	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
“	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cholera Infantum	42	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
“	82	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chorea	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
“	-----	-----	-----	1	-----	1	-----	-----	-----	-----	-----
Climacteria	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
“	-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----
Cong. Chills & Ague	11	4	1	1	1	2	2	2	4	8	1
“	10	8	2	1	2	1	8	2	8	2	-----
Consumption	58	2	7	24	101	56	57	40	49	28	4
“	26	7	14	49	110	69	44	82	86	17	6
Convulsions	46	-----	-----	-----	8	-----	1	2	-----	-----	-----
“	25	2	1	1	5	2	-----	-----	1	-----	2
Croup	87	1	1	1	-----	-----	-----	-----	-----	-----	-----
“	22	1	-----	-----	1	-----	-----	-----	-----	-----	-----
Cystitis	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----
“	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----
Debility	6	-----	1	-----	1	8	-----	-----	2	-----	-----
“	9	-----	-----	2	-----	1	2	2	2	-----	1
Diarrhoea	105	4	1	4	4	8	8	1	6	1	-----
“	99	5	-----	1	1	1	2	8	-----	1	2

TABLE VII.—CAUSES OF DEATH—

	DEATHS.				MONTHS.											
	Sex.															
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		
Males.....	8	.....	.....	.....	.....	1	1	2	.....	.....	.....	4	.....	.....
Females.....	.....	1	.....	9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males.....	35	.....	.....	.....	2	2	4	4	8	5	9	5	1	.....	
Females.....	.....	37	.....	72	1	.....	1	2	3	6	8	12	4	.....	
Males.....	68	.....	.....	.....	8	5	5	9	18	3	9	8	7	1		
Females.....	.....	75	.....	143	10	9	4	9	8	18	8	5	9	.....	
Males.....	72	.....	.....	.....	4	7	25	12	8	7	4	3	.....	2		
Females.....	.....	17	.....	89	1	1	5	1	2	3	8	1	.....	.....
Males.....	178	.....	.....	.....	3	2	3	11	58	70	24	1	5	1		
Females.....	.....	141	.....	320	2	3	4	15	41	54	16	5	1	.....	
Unknown.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Males.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Females.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	
Males.....	5	.....	.....	.....	.....	.....	2	2	1	.....	.....	.....	.....	.....
Females.....	.....	2	.....	7	.....	.....	.....	.....	1	.....	.....	.....	1	.....	
Males.....	46	.....	.....	.....	3	3	7	2	9	7	6	5	3	1		
Females.....	.....	39	.....	85	3	3	2	5	5	7	1	5	3	.....	
Males.....	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Females.....	.....	7	.....	9	1	2	.....	.....	2	1	.....	1	.....	.....
Males.....	29	.....	.....	.....	1	6	4	4	3	1	3	5	2	.....	
Females.....	.....	16	.....	45	1	.....	1	2	2	4	5	.....	1	.....	
Males.....	11	.....	.....	.....	.....	1	1	1	1	2	2	2	1	.....	
Females.....	.....	7	.....	18	.....	.....	.....	.....	2	2	2	1	.....	.....
Males.....	110	.....	.....	.....	7	7	10	8	17	26	13	11	11	.....	
Females.....	.....	118	.....	228	8	.....	4	12	25	27	15	10	16	1		
Males.....	180	.....	.....	.....	8	8	7	6	27	37	43	15	29	.....	
Females.....	.....	102	.....	342	9	6	4	12	18	35	41	16	20	1		
Males.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	
Females.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males.....	50	.....	.....	.....	3	3	2	11	9	8	7	3	4	.....	
Females.....	.....	43	.....	93	3	4	2	7	10	7	3	3	4	.....	

ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSES of DEATH.	AGES.											
	Under 5 yrs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Diabetes.....	---	1	1	---	2	1	1	---	1	---	---	1
“	---	---	---	---	1	---	---	---	---	---	---	---
Diphtheria.....	24	6	1	3	---	---	---	---	1	---	---	---
“	16	8	6	3	---	---	1	2	---	1	---	---
Dropsy	7	3	---	3	6	7	3	10	9	15	5	---
“	5	3	3	2	7	8	14	11	7	10	4	1
Drowned.....	5	11	6	10	19	9	6	2	1	1	---	2
“	5	5	---	---	---	4	2	---	---	---	---	1
Dysentery.....	188	14	6	3	2	1	2	2	3	4	2	1
“	107	8	3	---	---	2	2	3	6	4	---	6
“	1	---	---	---	---	---	---	---	---	---	---	---
Dysmenorrhœa.....	---	---	---	---	---	---	---	---	---	---	---	---
“	---	---	---	1	1	---	---	---	---	---	---	---
Dyspepsia.....	---	---	---	---	---	---	---	3	2	---	---	---
“	---	---	---	---	---	1	---	---	---	1	---	---
Enteritis.....	19	2	4	2	6	2	---	7	2	2	---	---
“	10	1	5	3	1	3	5	1	2	---	---	3
Epilepsy.....	---	---	---	---	---	---	---	1	1	---	---	---
“	---	---	2	1	1	1	---	---	1	1	---	---
Erysipelas.....	12	2	1	2	---	1	2	3	5	1	---	---
“	7	---	---	---	1	1	1	2	1	1	1	1
Fever, Intermittent..	4	---	---	3	2	---	---	---	1	1	---	---
“ “	---	2	---	1	2	1	---	1	---	---	---	---
Fever, Remittent....	48	9	3	2	9	11	3	11	5	2	---	2
“ “	54	5	7	12	11	6	2	6	6	3	2	4
Fever, Typhoid.....	17	7	11	25	52	19	14	14	7	3	1	5
“ “	21	13	17	33	35	14	5	9	4	5	3	3
Fistula in Ano.....	---	---	1	---	---	---	---	---	---	---	---	---
“	---	---	---	---	---	---	---	---	---	---	---	---
Fits.....	37	1	2	3	5	1	1	---	---	---	---	---
“	28	3	2	1	1	3	2	1	2	---	---	---

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[illegible]

ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSES of DEATH.	AGES.										
	Under 5 yrs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.
Hydrothorax.....			1					1			
".....											
Infantile.....	202										
".....	161										
".....	11										
Inflammation.....	6	1	1	2	1	8	1	8	1		1
".....	6		2	2	4	1	2	1		2	
Influenza.....	1										
".....											
Insanity.....				1	2	1	8	1	1		
".....					8	1	1	2	2		
Intemperance.....						1		1			2
".....											
Jaundice.....	1		1		1	1		1			
".....			1		1		1	1		1	
Kidney Disease.....			1		8	1		1	1	6	
" ".....	1									1	
Leprosy.....											
".....									1		
Lightning.....					1						
".....											
Liver Disease.....	4		1		2		8	4	8	8	
" ".....	5	1			2	2	4	5	1	2	
Lung Disease.....	5					8	4	1	1	2	
" ".....		1					1	1	1	2	
Measles.....	29	5	1	2							
".....	33	8	2	1	2						
Metria (Puer. F.).....											
" ".....				1	5	5					
Morbus Brightii.....								2	1		
" ".....											

TABLE VII.—CAUSES OF DEATH—

	DEATHS.				MONTHS.										
	Sex.														
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
Males.....	4	—	—	—	—	2	—	—	1	—	—	1	—	—	
Females....	—	1	—	5	—	—	—	—	—	—	—	1	—	—	
Males.....	2	—	—	—	—	—	—	—	—	1	1	—	—	—	
Females....	—	—	—	2	—	—	—	—	—	—	—	—	—	—	
Males.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Females....	—	1	—	1	—	1	—	—	—	—	—	—	—	—	
Males.....	4	—	—	—	1	—	—	1	—	—	2	—	—	—	
Females....	—	—	—	4	—	—	—	—	—	—	—	—	—	—	
Males.....	2	—	—	—	—	—	—	1	—	—	—	—	1	—	
Females....	—	—	—	2	—	—	—	—	—	—	—	—	—	—	
Males.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Females....	6	—	—	6	—	1	—	2	—	1	—	2	—	—	
Males.....	11	—	—	—	—	1	1	2	2	2	1	1	1	—	
Females....	—	18	—	24	—	1	1	2	4	8	1	1	—	—	
Males.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Females....	1	—	—	1	—	—	—	—	—	—	—	—	1	—	
Males.....	122	—	—	—	17	9	9	14	17	15	10	18	16	2	
Females....	—	126	—	248	15	9	10	12	15	14	18	14	19	—	
Males.....	41	—	—	—	2	8	2	1	5	10	7	8	8	—	
Females....	—	88	—	74	2	7	2	4	6	2	6	2	2	—	
Males.....	4	—	—	—	1	1	—	—	2	—	—	—	—	—	
Females....	—	—	—	4	—	—	—	—	—	—	—	—	—	—	
Males.....	8	—	—	—	—	—	1	—	—	1	1	—	—	—	
Females....	—	10	—	18	1	8	1	—	2	1	—	2	—	—	
Males.....	10	—	—	—	—	—	1	1	8	—	8	1	1	—	
Females....	—	7	—	17	8	1	—	1	—	—	1	—	1	—	
Males.....	1	—	—	—	—	—	—	—	—	—	—	1	—	—	
Females....	—	1	—	2	—	—	—	—	—	—	—	1	—	—	
Males.....	6	—	—	—	1	1	1	—	—	—	2	1	—	—	
Females....	—	2	—	8	—	—	—	1	—	—	—	1	—	—	

ALPHABETICAL ARRANGEMENT,—CONTINUED.

CAUSES OF DEATH.	AGES.										
	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.
Mortification									2	1	1
"				1							
Murder					1		1				
"											
Nausea Marina											
" "		1									
Necrosis							1	1	1	1	
"											
Nephritis								1		1	
"											
Neuralgia											
"						1	2		1	2	
Noma (Canker)	7								1	1	2
" "	10				1					1	1
Ovarian Disease											
" "				1							
Old Age								1	7	52	61
"								1	9	48	67
Paralysis	1	1					2	7	7	18	5
"	1	1		1	1	1	1	4	11	11	1
Parotitis	8								1		
"											
Pericarditis					1				1	1	
"	2			1	2			2	2		1
Peritonitis			1	1	1	3	1	2	1		
"		1			2	3			1		
Piles							1				
"							1				
Pleurisy		1	1				1	1	2		
"				1			1				

TABLE VII.—CAUSES OF DEATH—

[illegible]

ALPHABETICAL ARRANGEMENT,—CONTINUED.

[illegible]

TABLE VII.—CAUSES OF DEATH—

DEATHS.				MONTHS.											
	SEX.			Total.											
	Males.	Females.	Unknown.		April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
Males	19				3	6	8	3				1	3		
Females		4		28		1						2	1		
Males	24							28	1						
Females		2		26				2							
Males	36				1	8	2	9	9	4	5	4			
Females		40		76		2	1	6	10	8	6	8	3		
Males	1										1				
Females				1											
Males	4						1		1			1	1		
Females		6		10		1		2				2	1		
Males	11						1	1	8	5			1		
Females		9		20		1		3	2	2		1			
Males	2				1							1			
Females		5		7		1			1	1	2				
Males	2								1				1		
Females				2											
Males	295				26	24	17	37	43	51	33	28	23	3	
Females		266		563	11	18	23	40	39	41	25	24	36	4	
Unknown			2							2					
Males															
Females		2		2		1		1							
Males	54				2	3	1	10	12	9	6	4	7		
Females		66		120	4	7	3	7	12	16	10	4	2	1	
Males	10					1	2	2	2		1		2		
Females		2		12						1			1		

The following table, compiled at the Agricultural College, Lansing, from observations made at that Institution, is again inserted in the report. The weather being an important agent in connection with the public health, it is desirable that similar tables from other localities should hereafter appear. No others were accessible this year.

METEOROLOGICAL TABLE

SHOWING Mean Temperature and Rain-fall, from April 1st to December 31st, 1868, inclusive.

MONTHS.	Mean Temperature.	Amount of Rain-fall—in inches.
April	43°68	1.828
May	59°08	2.800
June	68°46	3.546
July	77°19	1.106
August	70°33	2.420
September	58°77	2.954
October	45°19	1.106
November	36°77	2.439
December	21°16	1.350
Mean temperature	53°40	
Total rain-fall—in inches		19.55

Mean temperature for corresponding months of 1867, was 53°92; and amount of rain-fall for those months, was 18.99 inches.

The greatest number of deaths was in September, 1,041; the least, in June, 482.

The number of deaths for quarterly periods was, for the			
Quarter ending June, 1868.....	1,471, or 23.26 per cent		
“ “ September, 1868	2,771, or 43.80	“	
“ “ December, 1868.....	2,046, or 32.34	“	
Dates of deaths not returned.....	38, or .60	“	

The deaths from specified causes are divided among the several classes, as follows:

1. Zymotic Diseases.....	1,296, or 22.77 per cent.	
2. Constitutional Diseases.....	1,176, or 20.67	“
3. Local Diseases.....	1,985, or 34.88	“
4. Developmental Diseases.....	876, or 15.39	“
5. Violent Deaths.....	358, or 6.29	“

One person died from snake bite; 1 from hydrophobia; 1 from suffocation; 1 from lightning; 7 from homicide; 23 from suicide; 15 from railroad accidents; 17 from poison; 26 from sun-stroke; 16 from gun-shot wounds; 41 from burns and scalds; 89 from drowning. About 150 died from other casualties not specifically arranged, and often not definitely returned; many losing life in cutting timber, and others from fractious domestic animals. A woman 44 years old was lost in the woods of Shiawassee county, and perished.

The following table enumerates the ten causes producing the highest rate of mortality, with the number of deaths resulting therefrom, and percentage of all deaths in the State from April 5 to December 31, 1868:

CAUSES OF DEATH:	Number.	Per Centage.
Consumption	841	13.31
Infantile	374	5.91
Typhus Fever.....	342	5.40
Dysentery.....	320	5.06
Pneumonia.....	256	4.05
Diarrhœa	249	3.93
Old Age	248	3.92
Remittent Fever.....	228	3.60
Cephalitis.....	222	3.51
Casualty	153	2.42

Consumption—The number of deaths from consumption is 841, or 13.31 per cent. of the whole number of deaths, or 111 less deaths from this disease than were returned last year. Four hundred and twenty-four males, and 417 females, or nearly equal numbers of each sex died of this disease. Seventy-nine died from consumption under 5 years; 9 between 5 and 10 years; 21 between 10 and 15 years; 73 between 15 and 20 years; 211 between 20 and 30 years; 125 between 30 and 40 years; 101 between 40 and 50 years; 72 between 50 and 60 years; 85 between 60 and 70 years; 40 between 70 and 80 years; 10 over 80 years, and 15 whose ages were unknown.

This disease seems least fatal between the ages of 5 and 10, and reaches its culminating point between the ages of 20 and 30, calling for nearly 25 per cent. of its victims at that period.

Infantile—Three hundred and seventy-four persons are listed under this head, or 5.91 per cent. of the whole number of deaths. It is largely made up from those dying before the age of 1 month; the causes of death being indefinitely stated, or returned as "unknown." When we add to this the very great number of children under 5 years, classed under other diseases, the aggregate number almost passes belief.

Typhus Fever—Under this head are included all continued, miasmatic fevers. There are 374 cases, or 12 more than were returned in the previous report.

Dysentery—Three hundred and twenty deaths are reported from this disease, of which 240, or $\frac{3}{4}$ ths of the whole number are returned as occurring under the age of 5 years.

Pneumonia—Which stood 3d on the list last year, is the 5th in the returns for this report; the number of deaths being 256 in this, and 313 in the previous report. One hundred and twelve deaths are reported under the age of 5 years.

Diarrhœa—Stands 6th on this list, with 249 victims; 204 under 5 years of age.

Old Age—Under this head, 248 deaths are reported. It is probable that more accurate returns would show that in some cases, death resulted from some other cause.

Remittent Fever—Two hundred and twenty-eight deaths are classed under this head, of which 151 are simply returned as "Fever."

Cephalitis—Claims 222 victims.

Casualty—One hundred and fifty-three persons under this head, including all cases of accident or negligence, resulting in death, not specified under other heads.



TABLE VIII.—OCCUPATIONS.

DISTINGUISHING, by Classified Occupations, the number, with the aggregate and average ages of all whose occupations were returned, who deceased from April 5 to December 31, 1868, inclusive, above the age of 20 years.

CLASS.	OCCUPATION.	No. of Persons.	AGES.	
			Aggregate.	Average.
	All classes of occupations	1,473	71,289	48.43
I.	Cultivators of the earth.....	768	39,424	51.33
II.	Active mechanics abroad.....	66	3,181	48.20
III.	Active mechanics in shops.....	89	4,339	48.75
IV.	Inactive mechanics in shops.....	38	1,806	49.89
V.	Laborers—no special trades.....	143	5,952	41.90
VI.	Factors laboring abroad.....	58	2,285	39.40
VII.	Merchants, financiers, agents, &c.....	88	3,799	45.00
VIII.	Professional men	43	2,290	51.65
IX.	Females.....	185	8,256	44.73
I.	Cultivators of the earth.....	768	39,424	51.33
	Farmers	765	39,217	51.27
	Gardeners	2	150	75.00
	Horticulturist	1	57	57.00
II.	Active mechanics abroad.....	66	3,181	48.20
	Builders	8	112	37.33
	Carpenters and joiners.....	45	2,804	51.20
	Masons and bricklayers.....	14	564	40.29
	Well digger.....	1	45	45
	Wheelwrights.....	3	156	52.00

TABLE VIII—CONTINUED.

CLASS.	OCCUPATION.	No. of Persons.	AGRS.	
			Aggregate.	Average.
III.	Active mechanics in shops	89	4,889	48.75
	Baker	1	57	57
	Blacksmiths	15	695	46.33
	Bleacher	1	35	35
	Boiler maker	1	58	58
	Brewers	4	160	40.00
	Cabinet makers	8	200	66.67
	Carriage and wagon makers	3	154	51.33
	Chair maker	1	58	58.00
	Chair seater	1	78	78.00
	Clothier	1	50	50.00
	Cooks	2	75	37.50
	Coopers	8	489	61.12
	Currier	1	24	24.00
	Cutler	1	24	24.00
	Edge tool maker	1	36	36.00
	Gunsmith	1	88	88.00
	Hatter	1	68	68.00
	Machinists	7	294	42.00
	Millers	8	889	48.68
	Painters	8	324	40.50
	Potter	1	28	28.00
	Tinsmith	1	58	58.00
	Yeast manufacturer	1	44	44.00
	Mechanics—trades not specified	17	873	51.35
IV.	Inactive mechanics in shops	88	1,896	49.89
	Barbers	4	148	35.75
	Engraver	1	54	54.00
	Jeweler	1	67	67.00
	Printer	1	24	24.00
	Saddlers and harness makers	4	155	38.75

TABLE VIII—CONTINUED.

CLASS.	OCCUPATION.	No. of Persons.	AGES.	
			Aggregate.	Average.
IV.	Inactive mechanics in shops—(Continued.)			
	Shoe makers.....	18	999	55.50
	Tailors.....	8	378	47.25
	Watch maker.....	1	76	76.00
V.	Laborers—no special trades.....	142	5,952	41.90
	Laborers.....	185	5,750	42.60
	Miners.....	7	202	28.86
VI.	Factors laboring abroad.....	58	2,285	39.40
	Boat steward.....	1	22	22.00
	Brakeman.....	1	20	20.00
	Butchers.....	7	312	44.57
	Contractor.....	1	56	56.00
	Drayman.....	1	75	75.00
	Drovers.....	8	100	33.83
	Engineers.....	5	204	40.80
	Firemen.....	2	49	24.50
	Lumbermen.....	18	576	44.20
	Lumber inspector.....	1	28	28.00
	Patent right dealer.....	1	28	28.00
	Railroad conductor.....	1	24	24.00
	Railroad repairers.....	2	57	28.50
	Sailors.....	11	416	37.82
	Soldiers.....	2	52	26.00
	Speculator.....	1	74	74.00
	Street car driver.....	1	25	25.00
	Teamsters.....	2	64	32.00
	White-washers.....	2	113	56.50
VII.	Merchants, financiers, agents, &c.....	83	3,729	45.00
	Auctioneer.....	1	43	43.00
	Bankers.....	2	121	60.50

TABLE VIII—CONTINUED.

CLASS.	OCCUPATION.	No. of Persons.	Ages.	
			Aggregate.	Average.
VII.	Merchants, financiers, agents, &c.—(Continued.)			
	Boarding house keeper.....	1	44	44.00
	Bookkeepers.....	5	148	29.60
	Clerks.....	14	464	33.14
	Druggist.....	1	46	46.00
	Fur dealers.....	2	70	35.00
	Grocers.....	8	435	54.38
	Hotel keepers.....	7	321	45.86
	Insurance agents.....	2	150	75.00
	Livery keepers.....	2	116	58.00
	Merchants.....	81	1,469	47.40
	Real estate agents.....	2	118	59.00
	Saloon keepers.....	4	167	41.75
	Telegrapher.....	1	22	22.00
VIII.	Professional men, &c.	43	2,220	51.63
	Clergymen.....	11	649	59.00
	Custom house officer.....	1	28	28.00
	Dentists.....	2	98	49.50
	Justices of the peace.....	2	181	65.50
	Lawyers.....	5	248	49.60
	Notary public.....	1	42	42.00
	Physicians.....	11	649	59.00
	Policeman.....	1	34	34.00
	Public works.....	1	68	68.00
	Publishers.....	2	99	49.50
	Sheriff.....	1	48	48.00
	Students.....	2	42	21.00
	Surveyors.....	3	89	29.67

TABLE VIII—CONTINUED.

CLASS.	OCCUPATION.	No. of Persons.	AGES.	
			Aggregate.	Average.
IX.	Females	185	8,256	44.73
	Domestics.....	2	76	38.00
	Dress makers.....	5	182	26.40
	Housekeepers.....	145	6,750	46.55
	Merchant	1	79	79.00
	Milliners.....	2	65	32.50
	Nurse	1	42	42.00
	Operatives.....	1	34	34.00
	Postmistress.....	1	66	66.00
	Seamstresses.....	5	182	26.40
	Servants.....	5	225	45.00
	Sister of Charity.....	1	20	20.00
	Spinster.....	1	57	57.00
	Tailloresses.....	5	308	60.60
	Teachers.....	10	275	27.50

The number whose occupations are classified in this report, is 1,472, or 23.47 per cent. of the whole number of deaths reported. Of this number, 1,287 are males, and 185 are females. Deducting 3,330, which is the number of deaths under twenty years of age, leaves 2,996, and estimating one-half of these as females, and taking into consideration 185 females whose occupations were returned, it would show that the former occupations of 211 deceased males, above the age of twenty years, were not stated. But many of the occupations returned were those of boys and girls, pupils of schools, or who were but partially employed.

DEATHS.

[illegible]

DEATHS.

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CLASS II.—1. Diathetic Diseases.....	6	4	18	22	3	1	2	3	8	7	3	10	4	10	1	8
2. Tubercular Diseases.....	12	8	7	9	1	8	15	12	19	9	1	17	8	10	6	1	2	1
CLASS III.—1. Diseases of Nervous System.....	2	2	2	3	.....	.....	9	7	8	2	.....	11	2	5	.....	1	1	.....
2. " Organs of Circulation.....	1	2	6	5	1	.....	9	14	12	2	1	14	6	8	.....	2	1	4
3. " Respiratory Organs.....	8	6	17	19	.....	9	15	23	42	14	13	22	13	9	16	2	10	9
4. " Digestive Organs.....	.....	.....	4	1	.....	.....	4	1	3	.....	.....	.....	.....	1	1	.....	1	.....
5. " Urinary Organs.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
6. " Generative Organs.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
7. " Organs of Locomotion.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8. " Integumentary System.....	.....	.....	.....	.....	.....	.....	1	2	2	1	.....	.....	1	.....	.....	.....	.....	.....
CLASS IV.—1. Developmental Diseases of Children.....	9	6	7	8	2	2	1	11	22	5	4	14	5	13	1	13	4	2
2. " " Women.....	4	.....	1	.....	.....	.....	2	5	1	4	.....	6	1	.....	1	.....	.....	.....
3. " " Old People.....	.....	.....	6	10	.....	.....	11	13	16	3	4	9	4	12	.....	1	.....	4
4. Diseases of Nutrition.....	1	1	1	1	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CLASS V.—1. Accidents or Negligence.....	18	4	5	6	1	.....	6	12	11	6	3	14	2	10	4	10	2	3
2. Homicide.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....
3. Suicide.....	.....	.....	.....	.....	.....	.....	8	1	1	.....	.....	2	1	.....	.....	.....	.....	.....
4. Lightning.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Causes not Specified.....	18	4	9	20	8	2	16	12	18	7	4	12	2	13	.....	11	8	3

SECOND REGISTRATION REPORT.

TABLE IX--Continued.

CAUSES OF DEATH.		COUNTIES.																		
		Midland,	Monroe.	Montcalm.	Muskogon.	Nowaygo.	Oakland.	Oceans.	Ontonagon.	Ottawa.	Saginaw.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Westford.
All Causes.....		8	118	61	164	40	167	48	15	171	241	41	128	199	129	72	184	166	1108	7
Specified Causes.....		8	107	58	138	37	149	84	13	154	216	84	113	164	113	64	125	141	996	6
CLASSES.																				
I.—Zymotic Diseases.....		17	12	43	13	28	2	1	89	47	9	84	85	94	19	32	24	222		
II.—Constitutional Diseases.....		8	26	9	21	8	44	9	4	28	36	7	23	32	27	13	30	28	183	1
III.—Local Diseases.....		2	45	26	56	6	60	12	5	59	56	11	42	49	43	24	41	60	337	4
IV.—Developmental Diseases.....		3	13	3	12	5	17	9	1	26	39	3	11	30	8	7	12	18	200	
V.—Violent Deaths.....		6	8	6	6	5	5	2	2	7	8	4	3	18	11	1	10	11	49	1
ORDERS.																				
Class I.—1. Miasmatic Diseases.....		17	12	41	13	23	2	1	37	44	9	34	35	23	18	31	23	210		
2. Enthetic Diseases.....																				
3. Dietic Diseases.....																			4	
4. Parasitic Diseases.....				2						2	8				1	1	1	2	8	

CLASS II.—1. Diathetic Diseases.....		1	6	2	6	.....	12	2	1	4	8	1	5	8	6	1	6	8	40	....
2. Tubercular Diseases.....		2	20	7	15	8	82	7	8	19	28	6	18	24	22	12	24	25	148	1
CLASS III.—1. Diseases of Nervous System.....		1	15	8	18	8	24	8	1	12	27	5	6	17	12	5	12	20	182	....
2. " Organs of Circulation.....		---	6	---	2	1	9	---	1	2	5	1	8	5	5	2	6	9	28	....
3. " Respiratory Organs.....		1	10	4	4	---	6	8	1	15	12	1	11	10	6	8	11	7	80	....
4. " Digestive Organs.....		---	12	18	80	2	18	5	1	28	41	8	21	15	19	18	11	19	184	4
5. " Urinary Organs.....		1	---	---	---	---	2	1	1	1	---	---	1	2	1	---	1	8	---	---
6. " Generative Organs.....		---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---
7. " Organs of Locomotion.....		---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	8	---	---
8. " Integumentary System.....		---	1	1	1	---	1	---	---	---	1	1	---	---	---	---	1	5	---	---
CLASS IV.—1. Developmental Diseases of Children.....		2	9	2	8	8	5	5	1	10	27	---	6	17	8	4	8	8	148	....
2. " " Women.....		---	1	---	2	---	4	2	---	4	4	---	8	8	2	1	8	---	8	---
3. " " Old People.....		1	8	1	---	1	7	1	---	10	6	2	2	9	8	2	1	9	41	....
4. Diseases of Nutrition.....		---	---	---	2	1	1	1	---	2	2	1	---	1	---	---	---	1	8	---
CLASS V.—1. Accidents or Negligence.....		---	6	8	5	5	4	2	2	6	6	4	8	14	11	1	10	11	44	....
2. Homicide.....		---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	2	---	---
3. Suicide.....		---	---	1	---	---	---	---	---	---	2	---	---	8	---	---	---	8	1	---
4. Lightning.....		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Causes not Specified.....		---	11	8	26	8	18	9	2	17	25	7	10	85	16	8	9	25	112	1

13. Scarlatina.....	46	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	8
14. Small Pox.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15. Whooping Cough.....	190	1	.....	4	.....	6	8	11	2	.....	1	8	.....	1 1 2
16. Measles.....	82	2	.....	1	2	.....	.....	1	.....	.....	.....	.....	.....	.....
17. Tetra.....	11	1	.....	.....	.....	.....	.....	1	2	.....	2	.....	.....	1
18. Spine Diseases, &c.(d).....	85	8	.....	.....	1	1	8	2	.....	8	.....	.....	1	.....
19. Influenza.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ORDER 2— <i>Exanthic.</i>														
Totals.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
1. Hydrophobia.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Snake Bite.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
ORDER 3— <i>Dietic.</i>														
Totals.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
1. Goitre.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
2. Intemperance.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ORDER 4— <i>Parasitic.</i>														
Totals.....	28	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	2
1. Thrush.....	20	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
2. Worms.....	18	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
CLASS II— <i>Constitutional Diseases. ORDER 1—<i>Diatetic.</i></i>														
Totals.....	247	4	.....	8	.....	1	8	12	9	.....	9	5	.....	4 13
1. Anæmia and Dropsy.....	148	3	.....	1	.....	1	6	6	6	.....	6	4	.....	4 8

TABLE IX—CONTINUED.

DISEASES.	COUNTIES.																	
	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Clinton.	Kalamet.	Genesee.	Gd. Traverse.	Gratiot.	Hillsdale.	
CLASS II. ORDER 1—Continued.																		
2. Cancer	77	—	—	2	—	—	2	—	8	—	—	—	1	—	—	—	8	
8. Noma, (Canker)	28	1	—	—	—	—	—	6	—	—	—	8	—	—	—	—	2	
4. Mortification	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ORDER 2—Tubercular.																		
Totals	929	20	1	1	14	6	27	98	14	—	—	24	19	—	29	2	8	26
1. Phthisis, (Consumption of Lungs)	849	18	1	1	18	6	24	27	13	—	—	22	19	—	28	1	8	25
2. Scrofula	20	—	—	1	—	1	2	—	1	—	—	1	—	—	—	—	—	—
8. Hydrocephalus	56	2	—	—	—	1	1	1	—	—	—	1	—	—	1	—	—	—
4. Hemoptysis	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
CLASS. III—Local Diseases. ORDER 1—Nervous System.																		
Totals	595	13	1	7	7	17	16	15	17	—	—	8	8	—	16	1	4	13
1. Cephalitis	228	8	—	8	1	9	6	2	8	—	—	6	1	—	7	—	8	7
2. Apoplexy	87	—	—	—	—	1	4	1	8	—	—	—	1	—	1	1	1	—

TABLE IX—CONTINUED.

DISEASES.	COUNTIES.																	
	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Clinton.	Kalam.	Kemmet.	Genesee.	Gd. Traverse.	Gratiot.	Hillsdale.
ORDER 4—Digestive Organs.																		
Totals.....	816	80	2	4	4	14	8	24	11	1	2	16	9	2	24	1	4	14
1. Enteritis.....	82					8		8	2			2	1		5		1	8
2. Gastritis.....	4	1																
3. Peritonitis.....	19	8		1	2						1							
4. Hernia.....	10				1							1						2
5. Fistula.....	1										1							
6. Stomach Diseases, &c.....	20	2			1	1	1	2						1	1			
7. Bowels, Diseases of, &c.....	33							3				1						1
8. Hepatitis.....	5																	
9. Jaundice.....	13										2							
10. Liver Diseases, &c.....	47	1					1	8				1	2		2		1	1
11. Hemorrhoids.....	2																	
12. Diarrhea.....	249	14	2	8	1	3	3	3	1	1		3	8		3			1

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TABLE IX—CONTINUED.

DISEASES.	COUNTIES.																	
	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Clinton.	Kalam.	Kemnet.	Genesee.	Gd. Traverse.	Gratiot.	Hillsdale.
ORDER 8—Continued.																		
2. Leprosy.....																		1
3. Abscess, (part not stated).....												1	1					1
4. Tumor, (part not stated).....									1				1					
5. Ulcers, (part not stated).....																		
CLASS IV—Developmental Diseases. ORDER 1—Developmental Diseases of Children.																		
Totals.....	498	10	1	1	2	18	6	16	5	1		8	2	5	8	4	1	7
1. Still-born.....	46				1			4										
2. Premature Birth and Infantile Debility.....	876	9	1	1	2	16	6	12	5	1		8	2	5	7	4	1	7
3. Teething.....	76	1			1										1			
ORDER 2—Developmental Diseases of Women.																		
Totals.....	92	8	1	1	8	8	2	5	1			4	1		2			
1. Puerperia.....																		
2. Childbirth (See also Metris).....	85	8	1	1	8	8	2	4	1			4	1		1			

18. Scarletina.....	1						1					8		
14. Small Pox.....												1	2	
15. Whooping Cough.....	2	9	8	1	8	2	2	8	2			1	1	8
16. Measles.....	1						1	1						5
17. Metria.....									1					1
18. Spine Diseases, &c. (<i>d.</i>).....	1	1					1					2		
19. Influenza.....														
ORDER 2—<i>Euthetic.</i>														
Totals.....												1		
1. Hydrophobia.....												1		
2. Snake Bite.....														
ORDER 3—<i>Dietic.</i>														
Totals.....														
1. Goitre.....														
2. Intemperance.....														
ORDER 4—<i>Parasitic.</i>														
Totals.....	1	1			1	1	1	1					1	
1. Thrush.....							1	1	1					
2. Worms.....	1	1			1									1
CLASS II—<i>Constitutional Diseases.</i> ORDER 1—<i>Diathectic.</i>														
Totals.....		6	5	1	2	8	8	7	8			10	4	10
1. Anemia and Dropsy.....		8	8	1	2	2	2	4	1			2	8	7

TABLE IX—CONTINUED.

DISEASES.	COUNTIES.														
	Houghton.	Huron.	Ingham.	Iron.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.
CLASS II. ORDER 1—Continued.															
2. Cancer.....	.....	.....	2	1	.....	.....	1	6	8	2	.....	6	.....	8	.....
3. Noma, (Canker).....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
4. Mortification.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
ORDER 2—Tubercular.															
Totals.....	6	4	18	22	8	1	29	86	81	13	8	88	18	80	4
1. Phthisis, (Consumption of Lungs).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Scrofula.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	2	.....	.....	.....
3. Hydrocephalus.....	1	.....	.....	2	.....	.....	1	1	2	.....	.....	.....	.....	.....	1
4. Hemoptysis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
CLASS III—Local Diseases. ORDER 1—Nervous System.															
Totals.....	12	8	7	9	1	8	15	12	19	9	1	17	8	10	6
1. Cephalitis.....	1	1	2	8	.....	2	8	7	7	4	1	6	8	4	8
2. Apoplexy.....	1	.....	.....	.....	.....	.....	.....	4	1	1	.....	1	1	.....	.....

Menominee.

Mecosta.

Mason.

Marquette.

Manistee.

Macomb.

Livingston.

Lenawee.

Leelanaw.

Lapeer.

Kent.

Kalamazoo.

Jackson.

Isabella.

Iosco.

Iron.

Ingham.

Huron.

Houghton.

[illegible]

TABLE IX—CONTINUED. *

DISEASES.	COUNTIES.														
	Houghton.	Huron.	Ingham.	Iron.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.
ORDER 8—Continued.															
2. Leprosy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3. Abscess, (part not stated).....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....
4. Tumor, (part not stated).....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	1	.....
5. Ulcers, (part not stated).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CLASS IV—Developmental Diseases. ORDER 1—Developmental Diseases of Children.															
Totals.....	9	6	7	8	2	2	1	11	22	5	4	14	5	13	1
1. Still-born.....	1	.....	1	2	.....	.....	.....	1	8	.....	.....	.....	.....	.....	.....
2. Premature Birth and Infantile Debility.....	4	6	6	6	1	2	1	8	18	5	4	14	5	11	1
3. Teething.....	4	.....	.....	.....	1	1	.....	2	1	.....	.....	.....	.....	2	.....
ORDER 2—Developmental Diseases of Women.															
Totals.....	4	.....	1	.....	.....	.....	2	5	1	4	.....	6	1	.....	1
1. Paramenia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Childbirth, (See also Metris).....	4	.....	.....	.....	.....	.....	2	5	1	4	.....	6	1	.....	1

COUNTIES.

[illegible]

13. Scarlatina.....							1	1	1	8	1	---	---	20
14. Small Pox.....								2						8
15. Whooping Cough.....	1	8	2	5	1		1	4	8	7		8	2	5
16. Measles.....			1		1		6	1	2		6	2		1
17. Meutria.....												1		2
18. Spine Diseases, &c., (d).		1					2	2	1	1	2	2	1	2
19. Influenza.....														1
ORDER 2— <i>Endothic.</i>														
Totals.....														
1. Hydrophobia.....														
2. Snake Bite.....														
ORDER 3— <i>Dietic.</i>														
Totals.....														4
1. Gout.....														
2. Intemperance.....														4
ORDER 4— <i>Parasitic.</i>														
Totals.....			2				2	8			1	1	1	2
1. Thrush.....			2					8			1		1	2
2. Worms.....							2					1		4
CLASS II— <i>Constitutional Diseases.</i> ORDER 1— <i>Diathectic.</i>														
Totals.....	1	6	2	6			12	2	1	4	8	1	5	8
1. Anemia and Dropsy.....	1	2	1	2			7	2	1	1	5		2	4

TABLE IX—CONTINUED.

DISEASES.	COUNTIES.																		
	Midland.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Saginaw.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
CLASS II. ORDER I—Continued.																			
2. Cancer.....		3	1	8		5			3	2		3	8				2	2	14
3. Noma, (Canker).....				1						1	1		1			1		2	
4. Mortification.....		1												1				1	
ORDER 2—Tubercular.																			
Totals.....	2	20	7	15	8	82	7	8	19	28	6	18	24	22	12	24	25	149	1
1. Phthisis, (Consumption of Lungs).....	2	20	7	13	8	82	6	8	17	21	6	18	20	18	11	23	21	123	1
2. Scrofula.....				1			1		1				2	1	1		2	1	
3. Hydrocephalus.....				1					1	7			2	8		1	2	22	
4. Hemoptysis.....																		2	
CLASS III—Local Diseases. ORDER 1—Nervous System.																			
Totals.....	1	15	8	18	3	24	8	1	12	27	5	6	17	12	5	12	20	182	
1. Cephalitis.....	1	6	8	7	2	7	1		8	11	3	8	7	2	3	9	8	37	
2. Apoplexy.....						1						1	1	2		1	2	7	

3. Paralysis.....	1			4	1		2	1	2		8	2	9	15
4. Insanity.....	1					2	2			1				4
5. Chorea.....				1										1
6. Epilepsy.....		1										1	2	
7. Tetanus.....														
8. Convulsions.....		1			1	1	4	1		8	1	1	1	50
9. Brain Diseases, &c., (c).....	7	9	1	10	1		6	8		5	4	1	6	16
10. Neuralgia.....				1										
ORDER 2—Organs of Circulation.														
Totals.....	6	2	1	9	1	2	5	1	8	5	5	2	6	28
1. Pericarditis.....	2			2										5
2. Heart Diseases, &c., (f).....	4	2	1	7	1	2	5	1	8	5	5	2	6	28
ORDER 3—Respiratory Organs.														
Totals.....	1	10	4	4	6	8	1	15	12	1	11	10	6	80
1. Pneumonia.....	1	5	8	4	4	2		18	10	1	5	8	6	25
2. Pleurisy.....		1						1			8			2
3. Bronchitis.....									2					1
4. Asthma.....		1		1	1								1	
5. Hydrothorax.....											1			
6. Throat Diseases.....	8			1	1							1	1	
7. Lungs, Diseases of, &c.....		1						1			2	1	1	9

[illegible]

TABLE IX—CONTINUED.

DISEASES.	COUNTIES.																		
	Midland.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Oshtemo.	Ottawa.	Baginaw.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
ORDER 8—Continued.																			
2. Leprosy.....																			
3. Abscess, (part not stated).....		1	1			1				1							1	8	
4. Tumor, (part not stated).....											1								2
5. Ulcers, (part not stated).....																			
CLASS IV—Developmental Diseases. ORDER 1—Developmental Diseases of Children.																			
Totals.....	2	9	2	8	8	5	5	1	10	27	—	6	17	8	4	8	8	143	
1. Still-born.....		1										2	2	1	—	1	1	18	
2. Premature Birth and Infantile Debility.....	2	8	2	8	2	5	5	1	9	20	—	4	15	2	4	6	7	77	
3. Teething.....					1				1	7	—					1		48	
ORDER 2—Developmental Diseases of Women.																			
Totals.....	1	1	2	—	—	4	2	—	4	4	—	8	8	2	1	8	—	8	
1. Parametria.....																			
2. Childbirth (See also Metritis).....	1	1	2	—	—	8	1	—	8	8	—	8	8	2	1	8	—	8	

TABLE IX—CONTINUED.

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- (a) Congestive Chills and Ague includes 18 cases of Intermittent Fever.
 - (b) With Remittent Fever are classed 151 cases returned as "Fever."
 - (c) All continued miasmatic fevers are classed under Typhus Fever.
 - (d) Includes 7 cases returned as Spotted Fever.
 - (e) With Brain Disease, &c., are classed 8 cases of Brain Softening, 26 cases of Sun-stroke, and 98 cases of Fits.
 - (f) Ten cases of Hemorrhage are classed with Heart Disease, &c.
 - (g) "Causes not Classified," includes those cases reported simply as "Inflammation," "Suddenly," "Colds," "Congestion," and such others as are indefinitely stated, or returned as unknown.

AN ACT

To Provide for the Registration of Births, Marriages, and Deaths, being Act
No. 194, Session Laws of 1867, approved March 27, as amended
by the Legislature of 1869.

SECTION 1. *The People of the State of Michigan enact*, That sections one, three, and four of an act entitled "An act to provide for the registration of births, marriages, and deaths," approved March twenty-seventh, eighteen hundred and sixty-seven, be and the same are hereby amended so as to read as follows:

SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain by actual inquiry

or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided*, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city, as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

SEC. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him; and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child, (if it have any,) the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death,

the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by

any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

SEC. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor, a certified statement, without fee, containing the name of the disease, or cause (if known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less

than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers or superintendents of asylums, hospitals, jails, prisons, work-houses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer), in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and, if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts), by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine

be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them, or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 2. That there shall be added to said act a new section, to stand as section eleven, to read as follows:

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding section. And such county clerks as have made returns of the births, marriages and deaths to the

Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

SEC. 3. This act shall take immediate effect.

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THIRD ANNUAL REPORT
OF THE
SECRETARY OF STATE
OF THE
STATE OF MICHIGAN,
RELATING TO THE REGISTRY AND RETURN OF
BIRTHS, MARRIAGES, AND DEATHS,
FOR THE YEAR 1869.



BY AUTHORITY.

LANSING:
W. S. GEORGE & CO., PRINTERS TO THE STATE.
1870.

P R E F A C E.



STATE DEPARTMENT, MICHIGAN.

SECRETARY'S OFFICE,
Lansing, December 15, 1870. }

To His Excellency HENRY P. BALDWIN,

Governor of Michigan:

SIR:—I have the honor herewith to submit my Third Annual Report of Births, Marriages, and Deaths, being for the year 1869.

The returns to this Department should have been received by September 1st, but in some instances County Clerks neglected making their returns until November, thus delaying the preparation of important tables.

There is, however, a marked improvement in this regard over former years, and it is probable there will be little cause for complaints of this kind in the future.

Complaints are frequent that marriages have been solemnized of which no returns have been made.

For obvious reasons, there should be record proof in the proper offices, of every marriage; and great pains have been taken by this Department to urge and facilitate the making of these returns.

Copies of the law, and the necessary blank returns have been placed in the hands of every Clergyman and Justice of the Peace in the State, and there is no excuse for this disregard of the law.

Delinquents, when known, have been reported to the proper officers for prosecution, but this course furnishes no adequate remedy for the evil. Whether the present law is the best that can be devised, or a marriage license law is preferable, is a question worthy of consideration.

In the preparation of a part of this Report, the services of a physician of recognized ability and standing in the profession are not only desirable, but almost indispensable.

The law should provide an adequate compensation for these services.

This part of the present report has been in charge of Dr. H. B. Baker, a member of the State Medical Society, to whom I take pleasure in acknowledging my obligation, and to whom is due whatever of merit it may contain. Possessing a rare fitness and ability for the work, he has devoted to it much time and labor.

In submitting the results of his labors, it is hoped they may possess the value anticipated, and meet the commendation of his professional brethren.

Very respectfully,

O. L. SPAULDING,

Secretary of State.

THIRD REGISTRATION REPORT.

FOR THE YEAR 1869.

The present report contains statistics for the entire year eighteen hundred and sixty-nine, in conformity with the amendments to the law requiring the registration and return of births, marriages, and deaths, passed at the last regular session of the Legislature.

This report is, in many respects, more perfect than the preceding ones, the returns to this department generally evincing greater care on the part of those whose duty it is to compile them. It is not surprising that some errors should be made in the returns, on account of the frequent transcriptions made before reaching this office. Such mistakes are corrected as far as is possible by correspondence, and by personal visits to the offices of County Clerks.

The statistics contained in this Report, being for an entire year, furnish a basis of comparison for future years. No attempt at general comparison has been made this year with the tables of the two previous reports, for the reason that the first contained many errors, incident to the introduction of a new law of this character, and the second was compiled from returns embracing statistics for only a fractional part of a year.

THIRD REGISTRATION REPORT.

Below are given the births, marriages, and deaths, as contained in the first, second, and this report:

FIRST REPORT.			SECOND REPORT.			THIRD REPORT.		
April 5th, 1867, to April 5th, 1868.			April 5th, 1868, to Dec. 31st, 1868.			Jan. 1st, 1869, to Dec. 31st, 1869.		
Births.	Mar.	Deaths.	Births.	Mar.	Deaths.	Births.	Mar.	Deaths.
19,544	5,708	6,260	19,171	5,485	6,326	27,098	8,459	9,145

Comparing the number of births, marriages, and deaths, as returned for the last nine months of the years 1867, 1868, and 1869, we have the following:

BIRTHS.

YEAR.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Unk'n.	Total.
1867....	1,573	1,372	1,385	1,542	1,704	1,641	1,661	1,502	1,554	81	14,015
1868....	1,607	2,087	1,944	2,163	2,399	2,362	2,246	2,099	2,283	81	19,171
1869....	2,042	2,221	2,085	2,466	2,731	2,682	2,508	2,361	2,512	49	21,687

MARRIAGES.

YEAR.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Unk'n.	Total.
1867....	181	189	157	324	367	605	864	752	873	14	4,326
1868....	569	611	487	685	538	718	785	662	524	8	5,485
1869....	716	758	623	750	629	775	775	686	568	17	6,292

DEATHS.

YEAR.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Unk'n.	Total.
1867....	582	888	846	373	512	627	555	485	518	76	4,407
1868....	486	508	482	747	983	1,041	776	602	666	38	6,324
1869....	712	652	690	687	1,068	1,194	874	686	896	48	7,387

By the foregoing it will be seen that the returns for 1869, as compared with similar months in 1867 and 1868, are largely increased. This is accounted for in part by the natural increase in population, but it also indicates more care and accuracy on the part of those who collect the statistics.

The whole number of names returned by the several County Clerks, as registered for the period from January 1st to December 31st, 1869, inclusive, was fifty-three thousand one hundred and fifty-six (53,156), viz:

Twenty-seven thousand and ninety-three (27,093) children were born, of which thirteen thousand five hundred and seventy-two (13,572) were males, twelve thousand four hundred and eighty-eight (12,488) were females, and sixty-four (64) sex not given.

Sixteen thousand nine hundred and eighteen (16,918) persons, or eight thousand four hundred and fifty-nine (8,459) couples were married.

The whole number of deaths returned was nine thousand one hundred and forty-five (9,145).

The excess of births over deaths was 17,948.

DELINQUENT.

No returns have been received from the counties of Chipewewa, Delta, Keweenaw, Mackinac, and Manitou, nor from the townships of Sheridan and White Rock, in the county of Huron. The county of Delta is represented in the Second Annual Report, containing statistics from April 5th to December 31st, 1868, inclusive; but, with this exception, the officials of the five counties first mentioned have failed, through negligence or otherwise, to comply with the law requiring the return of births, marriages, and deaths. The necessary blank forms for the collection of the statistics were furnished the Clerks of said counties, and their attention has been repeatedly called to the importance of making the returns. The delinquents were reported to the Prosecuting Attorneys of their respective counties, with a request to proceed against them,

but as yet no satisfactory results have been attained in this direction. These counties are far removed from direct communication, and are composed, in part, of islands in the lakes. As far as any official information is concerned, it is impossible to say whether or not people are born, given in marriage, or die, in these localities. It is gratifying to know that the number of counties, townships, and wards reported delinquent this year, is considerably less than in the two previous reports.

POPULATION.

We are indebted to United States Marshals J. R. Bennet and James Henry for the official figures showing the population of this State, by counties, for 1870, from which the various tables of percentage contained in this report have been made. The population of the unorganized counties of Kalkaska, Lake, Missaukee, Ogemaw, Oscoda, and Presque Isle, was added to that of the organized counties to which they are attached, and from which the returns of births, marriages and deaths, in said unorganized counties, were received.

The aggregate population of Michigan, as received from the above sources, is 1,190,137.

The proportion of marriages to total population is about 1 to 140.

The proportion of deaths to births is nearly 1 to 3.

The proportion of male deaths to male births is 1 to 2.93.

The proportion of female deaths to female births is 1 to 3.

The proportion of unknown deaths to unknown births is 1 to 1.48.

The above proportions have been worked out from the following table:

TABLE.

Exhibiting, by Counties and State, the Population of 1870, and the number of Marriages, Births, and Deaths which were registered and returned during the year 1869; also, by Sex, the Excess of Births over Deaths, and Deaths over Births.

COUNTIES.	Population.	Marriages.	BIRTHS.			DEATHS.			Excess of Births over Deaths.			Excess of Deaths over Births.					
			Whole Number.	Sex.		Whole Number.	Sex.		Male.	Female.	Unk'wn.	Male.	Female.	Unk'wn.			
				Male.	Female.		Unk'wn.	Male.							Female.	Unk'wn.	
Alcona.	760	5	4	1	3	--	1	1	---	--	---	3	---	---	---	---	---
Allegan.	32,151	260	693	839	300	4	205	105	98	2	234	202	2	---	---	---	---
Alpena.	3,111	42	84	42	42	--	80	14	16	--	23	26	--	---	---	---	---
Antrim.	2,409	14	56	24	22	--	10	6	4	--	28	18	--	---	---	---	---
Barry.	22,070	140	542	292	250	--	138	82	71	--	210	179	--	---	---	---	---
Bay.	15,900	86	264	129	135	--	116	76	40	--	53	95	--	---	---	---	---
Benzie.	2,184	12	21	11	9	1	20	7	18	--	4	---	--	1	---	4	---
Berrien.	35,010	314	642	341	299	2	215	97	118	--	244	181	2	---	---	---	---
Branch.	26,244	285	529	272	256	1	181	82	99	--	190	157	1	---	---	---	---
Calhoun.	36,172	164	736	369	366	1	271	133	131	7	236	235	--	---	---	---	6

TABLE—CONTINUED.

COUNTIES.	Population.	Marriages.	BIRTHS.			DEATHS.			Excess of Births over Deaths.			Excess of Deaths over Births.							
			Whole Number.	SEX.			Whole Number.	SEX.			Male.	Female.	Unk'wn.	Male.	Female.	Unk'wn.			
				Male.	Female.	Unk'wn.		Male.	Female.	Unk'wn.									
Cass.....	21,097	149	524	272	246	6	200	102	96	..	170	148	6	..	..	..	Male.	Unk'wn.	
Charlevoix.....	1,724	6	41	19	22	..	10	8	7	..	16	15	..	..	..	..	..	Female.	Unk'wn.
Cheboygan.....	2,197	15	54	28	26	..	9	4	5	..	24	21	..	..	..	..	..	Female.	Unk'wn.
Chippewa.....	1,690	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Unk'wn.
Clinton.....	22,886	156	689	329	310	..	171	83	88	..	246	222	..	..	..	..	..	Male.	Unk'wn.
Delta.....	2,441	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Unk'wn.
Eaton.....	25,190	148	625	298	331	1	193	98	94	1	195	237	..	..	..	..	..	Male.	Unk'wn.
Emmet.....	1,211	12	68	29	34	..	40	18	22	..	11	12	..	..	..	..	..	Female.	Unk'wn.
Genesee.....	88,910	248	708	354	348	1	228	117	108	8	237	240	..	..	..	..	..	Male.	Unk'wn.
Grand Traverse.....	4,448	31	182	78	52	2	42	22	20	..	56	32	2	..	..	..	..	Female.	Unk'wn.
Gratiot.....	17,859	90	280	133	125	2	61	42	35	4	111	90	..	..	..	..	..	Male.	Unk'wn.
Hillsdale.....	31,705	228	692	344	348	..	222	123	99	..	221	249	..	..	..	..	..	Female.	Unk'wn.
Houghton.....	18,905	68	532	279	248	..	188	63	55	..	211	189	..	..	..	..	..	Male.	Unk'wn.

BIRTHS.

11

Huron.....	9,038	67	240	115	125	..	61	23	25	..	92	97	..	..
Ingham.....	25,281	168	648	302	241	..	231	109	122	..	128	119	..	..
Ionia.....	27,676	206	617	314	308	..	235	123	111	1	191	192	..	1
Iosco.....	3,167	14	51	28	28	..	25	16	9	..	12	14	..	..
Isabella.....	4,479	32	113	62	51	..	28	16	12	..	46	39	..	..
Jackson.....	36,082	286	667	353	306	3	217	110	107	..	246	199	8	..
Kalamazoo.....	32,068	231	739	398	331	10	277	152	119	6	246	212	4	..
Kent.....	50,330	505	1,007	518	487	2	386	174	160	2	344	337	..	..
Keweenaw.....	4,206	..	..	..	..	..	..	..	..	..	..	..	..	..
Lapeer.....	21,355	139	408	208	200	..	125	52	72	1	156	128	..	1
Leelanaw.....	4,576	42	133	75	57	1	44	30	14	..	45	43	1	..
Lenawee.....	45,685	325	744	335	338	1	274	133	121	..	202	267	1	..
Livingston.....	19,839	119	444	232	212	..	131	73	58	..	129	154	..	..
Mackinac.....	1,716	..	..	..	..	..	..	..	..	..	..	..	..	..
Macomb.....	27,617	161	603	353	304	..	234	106	128	..	252	176	..	..
Manistee.....	6,074	68	161	86	75	..	48	25	23	..	61	52	..	..
Manitou.....	891	..	..	..	..	..	..	..	..	..	..	..	..	..
Marquette.....	14,932	75	397	226	171	..	131	56	75	..	170	96	..	..
Mason.....	3,266	27	69	35	34	..	34	22	12	..	13	22	..	..
Mecosta.....	5,645	74	130	63	67	..	43	22	20	..	41	47	..	..
Menominee.....	1,893	11	42	23	19	..	10	3	6	1	20	13	..	1
Midland.....	8,321	27	98	49	44	..	25	17	8	..	32	36	..	..

THIRD REGISTRATION REPORT.

TABLE—CONTINUED.

COUNTIES.	Population.	Marriages.	BIRTHS.			DEATHS.			Excess of Births over Deaths.			Excess of Deaths over Births.			
			Whole Number.	SEX.		Whole Number.	SEX.		Male.	Female.	Unk'wn.	Male.	Female.	Unk'wn.	
				Male.	Female.		Male.	Female.							Unk'wn.
Monroe.....	27,456	218	695	360	331	4	242	125	114	8	295	217	1	..	..
Montcalm.....	13,561	88	259	142	117	..	85	48	37	..	94	80	..	..	..
Muskegon.....	14,869	153	389	186	212	1	138	73	64	1	113	148	..	..	..
Newaygo.....	7,294	58	203	118	90	..	57	35	22	..	78	68	..	..	..
Oakland.....	40,898	880	706	370	334	2	241	136	105	..	284	229	2	..	..
Oceana.....	7,222	64	188	109	78	1	70	48	27	..	66	51	1	..	..
Ontonagon.....	2,885	15	117	57	60	..	33	20	13	..	37	47	..	..	..
Osceola.....	2,633	15	75	34	41	..	10	4	6	..	30	35	..	..	..
Ottawa.....	26,653	177	681	350	331	..	284	131	108	..	219	228	..	..	..
Saginaw.....	38,902	182	1,080	547	532	1	444	229	210	5	318	322	..	..	4
Sanilac.....	14,564	91	340	185	154	1	68	34	34	..	151	130	1	..	..
Shiawassee.....	20,856	129	582	286	295	1	154	75	78	1	211	157	..	..	..
St. Clair.....	36,937	264	672	458	417	2	299	171	127	1	283	290	1	..	..

Bt. Joseph.....	26,669	289	519	272	247	--	200	97	108	--	175	144	--	--	--
Tuscola.....	18,715	74	292	146	145	1	99	40	50	--	97	95	1	--	--
Van Buren.....	28,888	179	605	815	290	--	187	109	78	--	206	212	--	--	--
Washtenaw.....	41,449	800	711	854	837	--	249	129	120	--	225	237	--	--	--
Wayne.....	119,085	904	8,704	1,919	1,778	12	1,911	720	587	4	1,199	1,186	8	--	--
Wexford.....	740	4	19	10	9	--	5	8	2	--	7	7	--	--	--
State.....	1,190,187	8,459	27,098	14,071	12,968	64	9,145	4,796	4,806	48	9,275	8,656	88	4	17

BIRTHS.

The average number of births within several specified periods of time is as follows:

Year.....	27,093
Month.....	2,257.75
Week.....	521.01
Day.....	73.95

Of the 27,093 children born, 13,572 were males, 12,488 were females, and 64 sex not given. The parents of 12,093 children were born in the United States; the parents of 8,043 children were born in foreign countries; 1,219 children were born of American fathers and foreign mothers; 1,904 children were born of foreign fathers and American mothers, and the nativity of the parents of 2,867 was not returned, or reported as unknown.

African and Indian.—One hundred and fifty-two children (77 males and 75 females) were born of African parents, and seventy-two children (40 males and 32 females) were born of Indian parents.

Twins.—There were born 304 pairs of twins (608 children), of which 319 were males and 289 were females.

Triplets.—Four sets of triplets were born,—one in Barry county, one in Calhoun county, one in Gratiot county, and one in Newaygo county; 12 children, 6 boys and 6 girls.

Illegitimate.—One hundred and thirty-seven children,—63 males and 74 females.

Still-born.—One hundred and forty-one still-births are reported,—70 males, 48 females, and 23 sex not given. This number, though nearly double the sum of still-births for the two previous years, is yet far from being correct. In the returns of Massachusetts for 1868, three per cent. of the whole number of births were reported as still-births, while in Michigan, in the returns for 1869, only 0.52 per cent. of the total births are so reported, thus proving beyond all doubt that the returns of Michigan are still incomplete.

Return of still-births made to this office for the period from January 1st to December 31st, 1869, inclusive:

STILL-BIRTHS.

COUNTIES.	Males.	Females.	Sex not Given.	Total.
Allegan	1	--	--	1
Barry	7	1	--	8
Berrien	--	--	1	1
Branch	--	1	--	1
Calhoun	3	1	6	10
Cass	--	3	2	5
Clinton	--	1	--	1
Eaton	--	2	--	2
Genesee	2	--	--	2
Gratiot	--	4	--	4
Houghton	1	--	--	1
Ingham	2	2	--	4
Ionia	3	--	--	3
Isabella	--	1	--	1
Kalamazoo	--	1	6	7
Kent	7	3	3	13
Lapeer	2	--	--	2
Leelanaw	1	1	--	2
Livingston	2	--	--	2
Macomb	1	1	--	2
Manistee	1	--	--	1
Menominee	--	--	1	1
Monroe	3	1	--	4
Oakland	2	--	--	2
Ontonagon	--	1	--	1
Osceola	1	--	--	1
Ottawa	4	2	--	6
Saginaw	5	8	2	15
Shiawassee	1	1	1	3
St. Clair	2	2	--	4
St. Joseph	2	--	--	2
Tuscola	--	--	1	1
Van Buren	1	2	--	3
Washtenaw	2	--	--	2
Wayne	14	9	--	23
State	70	48	23	141

TABLE, showing, by Counties, the number of Children born of races other than White, from January 1st to December 31st, 1869:

COUNTIES.	AFRICAN.		INDIAN.		Total.
	Males.	Females.	Males.	Females.	
Allegan	7	3	--	--	10
Alpena	--	--	2	--	2
Barry	1	1	--	--	2
Berrien	5	6	--	--	11
Calhoun	6	4	--	--	10
Cass	23	20	1	1	45
Cheboygan	--	1	3	--	4
Clinton	--	1	--	--	1
Eaton	--	1	--	--	1
Emmet	--	--	24	27	51
Genesee	--	1	1	--	2
Gratiot	--	1	--	--	1
Houghton	1	--	--	--	1
Kalamazoo	3	4	--	--	7
Lapeer	--	1	--	--	1
Leelanaw	7	5	--	1	13
Livingston	--	1	--	--	1
Manistee	--	1	--	--	1
Monroe	--	1	--	--	1
Muskegon	1	--	--	--	1
Newaygo	--	--	1	--	1
Oakland	2	2	--	--	4
Oceana	--	--	5	1	6
Saginaw	2	--	2	2	6
St. Joseph	1	--	--	--	1
Van Buren	4	8	1	--	13
Washtenaw	3	8	--	--	11
Wayne	11	5	--	--	16
Total	77	75	40	32	224

TWINS.

*Analysis, by Counties, of the Birthplaces of the Parents of
Twins, and the several occupations of their Fathers,
according to the returns.*

Allegan—Nine American, 1 Canadian, 1 American father and English mother, 1 German father and Irish mother, 1 Canadian father and American mother. Eleven fathers are farmers, one mechanic, one carpenter. Total, 13 pairs, or 26 children.

Alpena—Two Canadian. One father a farmer, and one a laborer. Total, 2 pairs, or 4 children.

Antrim—One American. Father a farmer. Total, 1 pair, or 2 children.

Barry—Three American, 1 German, 1 Canadian, 1 American father and English mother, 2 Canadian father and American mother, 1 parents unknown. Eight fathers are farmers, and one a shoemaker. Total, 9 pairs, or 18 children.

Bay—Three American, 3 Canadian, 1 German, 1 English father and German mother, 1 American father and English mother, 1 German father and unknown mother. Five fathers are farmers, 3 laborers, 1 a brickmaker, and 1 a shoemaker. Total, 10 pairs, or 20 children.

Berrien—One American, 1 Canadian, 1 German. One father is a farmer, 1 a laborer, and 1 a mechanic. Total, 3 pairs, or 6 children.

Branch—Three Irish, and 1 American. Three fathers are farmers, and 1 a tailor. Total, 4 pairs, or 8 children.

Calhoun—Five Americans, 1 English, 2 German, 1 Irish, 1 Canadian father and American mother, 1 Irish father and American mother, 1 English father and American mother. Eight fathers are farmers, 1 blacksmith, 1 clerk, 1 boiler-maker, 1 merchant. Total, 12 pairs, or 24 children.

Cass—Six American. All the fathers are farmers. Total, 6 pairs, or 12 children.

Clinton—Seven American. Four fathers are farmers, 2 mechanics, and 1 merchant. Total, 7 pairs, or 14 children.

Eaton—Ten American, 1 Canadian, 1 Canadian father and American mother, and 1 German father and American mother. Nine fathers were farmers, 1 laborer, 1 blacksmith, 1 boot and shoemaker, and 1 tinner. Total, 13 pairs, or 26 children.

Genesee—Fourteen American, 1 English, 1 Canadian father and Irish mother, 1 French father and American mother. Twelve fathers are farmers, 1 joiner, 1 clerk, 1 miller, 1 tanner, 1 dentist. Total, 17 pairs, or 34 children.

Grand Traverse—One Canadian father and American mother, 1 American father and Irish mother, and 1 unknown. Two fathers are farmers, 1 unknown. Total, 3 pairs, or 6 children.

Gratiot—Two American, 1 American father and Canadian mother, and 1 American father and unknown mother. Fathers are all farmers. Total, 4 pairs, or 8 children.

Hillsdale—Six American. Five fathers are farmers, and 1 a laborer. Total, 6 pairs, or 12 children.

Houghton—Six Irish, 1 German, 1 English. Two fathers are laborers, 3 miners, 1 blacksmith, 1 carpenter, 1 overseer. Total, 8 pairs, or 16 children.

Ingham—Seven American. Four fathers are farmers, 1 painter, 1 miller, 1 horse farrier. Total, 7 pairs, or 14 children.

Ionis—Eight American, and 1 Irish. Six fathers are farmers, and 3 laborers. Total, 9 pairs, or 18 children.

Iosco—Father Canadian and mother unknown. Total, 1 pair, or 2 children.

Isabella—One American. Father a farmer. Total, 1 pair, or 2 children.

Jackson—Four American, 1 American father and Canadian mother, and 1 Irish father and American mother. Two fathers are farmers, 2 mechanics, 1 grocer, and 1 laborer. Total, 6 pairs, or 12 children.

Kalamazoo—Eight American, and 1 Canadian father and

American mother. Five fathers are farmers, 1 merchant, 1 hardware dealer, 1 carpenter, and 1 unknown. Total, 9 pairs, or 18 children.

Kent—Three American, 1 Irish, 1 Danish, 1 German father and unknown mother, 1 American father and Canadian mother, 1 unknown. Seven fathers are farmers, and 1 a saloon-keeper. Total, 8 pairs, or 16 children.

Lapeer—Six American, 2 German father and American mother, and 1 Canadian. Six fathers are farmers, 1 cooper, 1 miller, 1 carpenter. Total, 8 pairs, or 16 children.

Leelanaw—One Bohemian. Father a farmer. Total, 1 pair, or 2 children.

Lenawee—Seven American, 1 German, 1 Swede, 1 Canadian father and Irish mother, 1 Scotch father and Irish mother. Four fathers are farmers, 2 laborers, 1 engineer, 1 teamster, 1 carpenter, 1 clerk, 1 blacksmith. Total, eleven pairs, or 22 children.

Livingston—Three American, and 1 American father and unknown mother. Three fathers are farmers, and 1 a manufacturer. Total, 4 pairs, or eight children.

Macomb—One American, 1 German, and 1 Canadian father and American mother. One father is a farmer, 1 laborer, and 1 builder. Total, 3 pairs, or 6 children.

Manistee—One American. Father a farmer. Total, 1 pair, or 2 children.

Marquette—One Scotch father and Canadian mother. Father a farmer. Total, 1 pair, or 2 children.

Mason—One English. Father a farmer. Total, 1 pair, or 2 children.

Mecosta—One Canadian father and American mother. Father a farmer. Total, 1 pair, or 2 children.

Midland—One American. Father a farmer. Total, 1 pair, or 2 children.

Monroe—Two American, and 1 American father and Canadian mother. Fathers all farmers. Total, 3 pairs, or 6 children.

Montcalm—One Danish. Father a farmer. Total, 1 pair, or 2 children.

Muskegon—One German, 2 American, 1 Hollander, 1 Norwegian, 1 father Prince Edward Islander and mother American. One father is a farmer, 1 carpenter, 1 painter, 1 saloon-keeper, and 1 laborer. Total, 6 pairs, or 12 children.

Newaygo—Three American, and 1 Canadian. Fathers all farmers. Total, 4 pairs, or 8 children.

Oakland—Three American, 1 German, 1 Irish, 1 English father and Canadian mother, and 1 Scotch father and Canadian mother. Six fathers are farmers, and one unknown. Total, 7 pairs, or 14 children.

Oceana—Three American. Two fathers are farmers, and 1 attorney. Total 3 pairs, or 6 children.

Ontonagon—One Irish, and 1 Canadian father and American mother. One father a miner, and one a carpenter. Total, 2 pairs, or 4 children.

Osceola—One German, and 1 American father and Canadian mother. Fathers are farmers. Total, 2 pairs, or four children.

Ottawa—Three American, and one Netherlander. Two fathers are farmers, 1 wheelwright, and 1 master of propeller. Total, 4 pairs, or 8 children.

Saginaw—One American, 4 German, 1 Scotch, 1 Bavarian, 1 Irish father and American mother, 1 American father and unknown mother, and 1 Scotch father and English mother. Four fathers are farmers, 3 laborers, 1 shoemaker, 1 saloon-keeper, and 1 teamster. Total, 10 pairs, or 20 children.

Sanilac—One Irish, 1 Canadian father and English mother, 1 Canadian, 1 Canadian father and American mother, and 1 American father and Canadian mother. Four fathers are farmers, and 1 a blacksmith. Total, 5 pairs, or 10 children.

Shiawassee—Seven American, and 1 Irish. Six fathers are farmers, 1 laborer and 1 blacksmith. Total, 8 pairs, or 16 children.

St. Clair—Three American, 3 Canadian, 1 Irish, 2 Canadian

father and American mother, and 1 Irish father and Canadian mother. Six fathers are farmers, 3 laborers, and 1 Justice of the Peace. Total, 10 pairs, or 20 children.

St. Joseph—Nine American, and 1 German. Six fathers are farmers, 1 cooper, 1 lumberman, 1 tailor, and 1 laborer. Total, 10 pairs, or 20 children.

Tuscola—One German, and 1 American father and Irish mother. Fathers are farmers. Total, 2 pairs, or 4 children.

Van Buren—Five American, 2 American father and Canadian mother, and 1 unknown. Seven fathers are farmers, and 1 mason. Total, 8 pairs, or 16 children.

Washtenaw—One American, and 1 Irish. One father is a laborer, and 1 manufacturer. Total, 2 pairs, or 4 children.

Wayne—Seven American, 1 Canadian, 3 German, 3 Irish, 1 Prussian, 1 Bohemian father and Prussian mother, 1 Swiss father and Bavarian mother, and 1 unknown. Four fathers are laborers, 1 farmer, 2 cabinet-makers, 1 peddler, 1 doctor, 1 gardener, 1 miller, 1 tinsmith, 1 clerk, 1 mason, 1 salesman, 1 carpenter, 1 brewer, and 1 unknown. Total, 18 pairs, or 36 children.

TRIPLETS.

Four sets of triplets are returned, viz:

1. Three boys, born in Baltimore, Barry county, Michigan, August 23, 1869. Father and mother natives of Ohio. Father a farmer.

2. Two boys and one girl, born in Emmet, Calhoun county, May 5, 1869. Father an Indianian and a cooper. Mother a New Yorker.

3. Three girls, born in North Star, Gratiot county, March 9, 1869. Father an Englishman and a farmer. Mother an American.

4. One boy and two girls, born in Sheridan, Newaygo county, June 6, 1869. Father a Pennsylvanian and a farmer. Mother a native of Ohio.

ILLEGITIMATE CHILDREN.

*Analysis, by Counties, of the Birthplaces of the Parents of
Illegitimate Children, according to the Returns.*

Allegan—Three children; 1 American, 1 father unknown and American mother, 1 father unknown and Canadian mother.

Alpena—One child. Parents Canadians.

Berrien—Five children; 4 American, and 1 father unknown and American mother.

Branch—One child; father unknown and Irish mother.

Calhoun—Seven children; 1 American, 5 fathers unknown and mothers American, and 1 German father and American mother.

Cass—One child; father unknown and American mother.

Emmet—Ten children; all Indians.

Houghton—Two children; mothers, 1 Irish and 1 English. Fathers unknown.

Huron—Two children; 1 Canadian, and 1 father unknown and Canadian mother.

Ingham—Three children; 1 American, 2 fathers unknown and American mothers.

Ionia—Two children; 1 unknown father and American mother, and 1 parents unknown.

Iosco—One child; parents unknown.

Isabella—Two children; fathers unknown and American mothers.

Jackson—One child; father unknown and American mother.

Kalamazoo—Three children; 2 American, 1 father unknown and American mother.

Kent—Four children; 4 unknown fathers and American mothers.

Lenawee—Eight children; 3 American, 2 fathers unknown and American mothers, 1 father unknown and German mother, and 2 unknown.

Livingston—One child; American father and unknown mother.

Macomb—Three children; 1 American, and 2 unknown fathers and German mothers.

Mecosta—One child; Canadian.

Midland—Two children; 1 unknown father and English mother, and 1 American.

Monroe—Four children; 2 American, and 2 unknown.

Montcalm—One child; parents unknown.

Oakland—Seven children; 1 unknown father and American mother, and 6 unknown.

Oceana—Two children; unknown fathers and German mothers.

Ontonagon—One child; father unknown and American mother.

Ottawa—Three children; 1 American, 1 father unknown and American mother, and 1 father unknown and mother a Hollander.

Saginaw—Eight children; 1 English father and American mother, 1 father unknown and German mother, 2 fathers unknown and American mothers, 1 father American and mother unknown, and four unknown.

Sanilac—One child; father unknown and Canadian mother.

Shiawassee—One child; father unknown and American mother.

St. Clair—One child; father unknown and Canadian mother.

St. Joseph—Six children; 4 American, and 1 pair of twins, father unknown and mother American.

Washtenaw—Seven children; 3 American, 2 unknown father and American mother, 1 American father and unknown mother, and 1 unknown.

Wayne—Twenty children; 1 American, 1 Canadian, 1 German, 1 Polander, 7 unknown father and Canadian mother, 4 unknown fathers and American mothers, 1 Canadian father and American mother, 1 unknown father and Prussian mother, and 2 unknown.

Wexford—One child; American.

BIRTHS FOR SPECIFIED PERIODS.

Quarter ending March, 1869.....	5,415
“ “ June, 1869.....	6,348
“ “ September, 1869.....	7,879
“ “ December, 1869.....	7,381

The month of August has the largest number of births for one month, 2,731; and the month of January the least, 1,658.

The percentage of the parents of children born, is:

American.....	48.20
Foreign.....	29.69
American father and foreign mother.....	4.49
Foreign father and American mother.....	7.03
Unknown nativity of parents.....	10.59

Compared with the reports for the last two years, the proportion of American births is 4.01 per cent less than 1868, and 10.08 per cent less than 1867. The proportion of foreign births is 4.36 per cent less than in 1868, and 3.42 per cent greater than in 1867. The proportion of American fathers and foreign mothers is 0.07 per cent greater than 1868, and 0.01 per cent less than 1867. The proportion of foreign fathers and American mothers is 0.24 per cent less than 1868, and 0.12 per cent less than 1867. And the proportion of those whose nativity is unknown is 8.54 per cent greater than 1868, and 6.79 per cent greater than 1867.

From the above it appears that the percentage of American births, as compared with the whole number of births in the State, is gradually decreasing. Of the 7,199 births reported for the counties of Houghton, Ottawa, Saginaw, Sanilac, St. Clair, and Wayne, 59.57 per cent. were foreign, making a larger number of foreign births for these six counties than for any other twelve counties in the State.

The proportion of births to the total population, according to the census of 1870, is nearly 1 to 44.

The proportion of triplets to the whole number of children born in Michigan is 1 to 2251 $\frac{1}{4}$.

The proportion of twins to the whole number is about 1 to 89.

The proportion of illegitimate to the whole number is nearly 1 to 198.

The proportion of African children to the whole number of children born is about 1 to 178.

The proportion of Indian children to the whole number is 1 to 376 7-24.

TABLE
*Percentage of Births by Counties and State to Population of
 Counties and State.*

COUNTIES.	Total Births.	Total Population.	Per Cent of Births to Populat'n.
Alcona.....	4	780	0.58
Allegan.....	698	32,151	2.15
Alpena.....	84	8,111	2.70
Antrim.....	56	2,409	2.32
Barry.....	542	22,070	2.46
Bay.....	264	15,900	1.66
Benzie.....	21	2,184	0.96
Berrien.....	642	35,010	1.83
Branch.....	529	26,244	2.01
Calhoun.....	786	36,172	2.08
Cass.....	524	21,097	2.48
Charlevoix.....	41	1,724	2.37
Cheboygan.....	54	2,197	2.45
Chippewa.....	---	1,690	---
Clinton.....	689	22,886	2.74
Delta.....	---	2,441	---
Eaton.....	625	25,190	2.48
Emmet.....	68	1,211	5.20
Genesee.....	708	33,910	2.07
Grand Traverse.....	182	4,443	2.97
Gratiot.....	280	17,859	1.56
Hillsdale.....	692	31,705	2.18
Houghton.....	522	18,905	3.75
Huron.....	240	9,058	2.65
Ingham.....	548	25,281	2.14
Ionia.....	617	27,676	2.19
Iosco.....	51	3,167	1.61
Isabella.....	118	4,479	2.52
Jackson.....	667	36,082	1.84
Kalamazoo.....	789	32,068	2.30
Kent.....	1,007	50,380	2.31
Keweenaw.....	---	4,206	---
Lapeer.....	408	21,355	1.91
Leelanaw.....	188	4,576	2.90
Lenawee.....	744	45,685	1.63
Livingston.....	444	19,889	2.29
Mackinac.....	---	1,716	---
Macomb.....	662	27,617	2.39

TABLE—CONTINUED.

COUNTIES.	Total Births.	Total Population.	Per Cent. of Births to Population.
Manistee.....	161	6,074	2.65
Manitou.....	....	991	....
Marquette.....	397	14,982	2.04
Mason.....	69	3,266	2.11
Mecosta.....	180	5,645	2.80
Menominee.....	42	1,898	2.21
Midland.....	98	3,821	2.80
Monroe.....	695	27,486	2.55
Montcalm.....	259	19,561	1.90
Muskegon.....	399	14,899	2.68
Newaygo.....	208	7,294	2.78
Oakland.....	706	40,898	1.72
Oceana.....	183	7,222	2.60
Ontonagon.....	117	2,895	4.04
Osceola.....	75	2,058	2.82
Ottawa.....	681	26,658	2.55
Saginaw.....	1,080	33,902	2.77
Sanilac.....	340	14,564	2.88
Shiawassee.....	522	20,856	2.50
St. Clair.....	872	36,887	2.37
St. Joseph.....	519	26,669	1.90
Tuscola.....	292	13,715	2.12
Van Buren.....	605	28,838	2.09
Washtenaw.....	711	41,449	1.71
Wayne.....	3,704	119,085	3.11
Wexford.....	19	740	2.50
State.....	27,098	1,190,187	2.29

TABLE I.—BIRTHS.

Births by Counties. Percentage of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Fe- males.
Alcona.....	25.00	75.00	88
Allegan.....	56.81	43.69	129
Alpena.....	50.00	50.00	100
Antrim.....	60.71	39.29	150
Barry.....	55.09	44.91	116
Bay.....	48.86	51.14	95
Benzie.....	55.00	45.00	122
Berrien.....	58.28	46.72	114
Branch.....	51.52	48.48	106
Calhoun.....	50.20	49.80	109
Cass.....	52.50	47.50	110
Charlevoix.....	46.84	53.86	86
Cheboygan.....	51.85	48.15	107
Chippewa.....	.....	.....	---
Clinton.....	51.56	48.48	106
Delta.....	.....	.....	---
Eaton.....	55.91	44.09	88
Emmet.....	46.88	53.12	88
Genesee.....	50.48	49.57	101
Grand Traverse.....	60.00	40.00	150
Grafton.....	55.04	44.96	122
Hillsdale.....	49.71	50.29	98
Houghton.....	51.28	48.77	106
Huron.....	47.92	52.08	92
Ingham.....	55.62	44.88	125
Ionia.....	55.61	44.39	106
Iosco.....	54.90	45.10	121
Isabella.....	54.87	45.13	121
Jackson.....	58.92	46.08	116
Kalamazoo.....	54.59	45.41	120
Kent.....	51.54	48.46	106
Keweenaw.....	.....	.....	---
Lapeer.....	50.98	49.02	104
Leelanaw.....	58.88	41.67	181
Lenawee.....	47.78	52.22	91
Livingston.....	52.25	47.75	109
Mackinac.....	.....	.....	---
Macomb.....	54.08	45.92	117

TABLE I—CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Fe- males.
Manistec.....	53.42	46.58	114
Manitou.....	.....	.....	.....
Marquette.....	56.98	43.02	132
Mason.....	50.72	49.28	102
Mecosta.....	48.46	51.50	94
Menominee.....	54.76	45.24	121
Midland.....	52.60	47.40	111
Monroe.....	50.65	49.35	106
Montcalm.....	54.82	45.18	121
Muskegon.....	46.71	53.29	166
Newaygo.....	55.66	44.34	125
Oakland.....	52.56	47.44	110
Oceana.....	58.89	41.11	139
Ontonagon.....	48.78	51.22	90
Osceola.....	48.00	52.00	75
Ottawa.....	51.88	48.12	105
Saginaw.....	50.69	49.31	102
Sanilac.....	54.57	45.43	120
Shiawassee.....	54.89	45.11	121
St. Clair.....	52.07	47.93	103
St. Joseph.....	57.93	42.07	110
Tuscola.....	50.17	49.83	100
Van Buren.....	52.07	47.93	108
Washtenaw.....	49.79	50.21	96
Wayne.....	51.98	48.02	108
Wexford.....	52.63	47.37	112

TABLE II—BIRTHS.

Exhibiting the Sex, condition (as twin or illegitimate), and Parentage of Children born in the several Counties during the period from Jan. 1st to December 31st, 1869, inclusive.

COUNTIES.	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.				
		Males.	Females.	Unknown.	Twins.		Illeg.		American.	Foreign.	Am. Pa. For. Mo.	For. Pa. Am. Mo.	Unknown.
					Males.	Fem.	Males.	Fem.					
Alcona.....	4	1	3	..	..	..	..	..	1	..	2	1	..
Allegan.....	698	367	287	4	18	9	2	1	399	208	22	38	41
Alpena.....	84	85	42	..	4	..	1	..	90	59	..	5	..
Antrim.....	56	84	20	..	..	2	..	..	29	17	5	5	..
Barry.....	542	279	286	..	11	10	1	8	379	61	26	62	14
Bay.....	264	120	124	..	9	11	..	..	92	122	16	23	12
Benzie.....	21	11	9	1	..	..	..	..	18	5	..	3	..
Berrien.....	642	332	286	2	2	4	2	8	492	132	23	43	7
Branch.....	529	266	258	1	5	8	1	..	418	87	17	27	30
Calhoun.....	736	346	345	1	15	12	2	5	507	112	34	50	38
Cass.....	524	241	219	6	7	5	..	1	438	29	18	30	10
Charlevoix...	41	19	22	..	..	..	..	..	17	14	6	4	..
Cheboygan...	54	25	25	..	..	..	..	..	18	21	2	8	5
*Chippewa...	..	..	..	..	..	..	..	..	..	..	..	..	..
Clinton.....	689	319	308	..	10	6	..	..	414	108	39	58	25
*Delta.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Eaton.....	625	288	314	1	10	10	..	..	519	28	23	33	22
Emmet.....	68	1	1	..	..	..	4	6	55	1	1	4	2
Genesee.....	708	335	331	1	17	15	1	1	445	110	36	61	51
Grand Trav..	132	72	52	2	6	..	..	..	58	37	12	16	9
Gratiot.....	230	151	115	2	2	9	..	..	196	23	18	25	28
Hillsdale.....	692	338	342	..	6	6	..	..	532	51	16	25	8
Houghton...	522	268	235	..	8	8	2	..	37	478	8	6	8
Huron.....	240	113	125	..	..	..	2	..	24	177	15	23	1
Ingham.....	543	238	233	..	8	6	1	2	420	52	22	40	9
Ionia.....	617	305	292	..	9	9	2	..	423	73	32	62	22
Iosco.....	51	26	22	..	2	..	1	..	7	8	4	5	27
Isabella.....	113	60	49	..	1	1	1	1	55	10	5	10	33
Jackson.....	667	349	302	3	9	3	..	1	422	123	32	61	20
Kalamazoo...	739	334	317	10	10	8	1	2	439	164	23	65	43
Kent.....	1007	502	480	2	12	6	4	1	427	156	47	68	307
*Keweenaw...	..	..	..	..	..	..	..	..	..	..	..	..	..
Lapeer.....	408	200	189	..	8	10	..	..	200	80	41	54	33
Leelanaw.....	133	66	51	1	2	..	..	..	46	67	9	3	4

* Not returned.

TABLE II—CONTINUED.

COUNTIES.	Number of Births.	SEX.			CONDITION.				NATIVITY OF PARENTS.				
		Males.	Females.	Unknown.	Twins.		Illeg.		American.	Foreign.	Am. Pa. For. Mo.	For. Pa. Am. Mo.	Unknown.
					Males.	Fem.	Males.	Fem.					
Lenawee.....	744	341	372	1	11	11	8	5	451	128	32	46	87
Livingston.....	444	223	206		3	5	1		275	65	14	36	54
*Mackinac.....													
Macomb.....	662	355	298		2	4	1	2	282	260	50	50	2
Manistee.....	161	83	78		8	1			81	48	7	11	
*Manitou.....													
Marquette.....	397	224	170		1	1	1		14	10	3	9	361
Mason.....	69	34	33		1	1			37	20	3	7	2
Mecosta.....	130	60	66		1	1	2		67	30	10	14	9
Menominee.....	42	23	19						11	19	2	9	1
Midland.....	98	45	44		2		2		52	18	7	4	12
Monroe.....	695	357	323	4	3	3		4	359	151	50	49	86
Montcalm.....	259	141	115		1	1		1	171	46	14	13	15
Muskegon.....	399	179	206	1	6	6			125	94	18	46	116
Newaygo.....	208	104	87		8	3			121	27	8	19	28
Oakland.....	706	355	324	2	10	4	3	4	303	81	53	42	222
Oceana.....	183	101	72	1	2	4	1	1	115	27	16	16	14
Ontonagon.....	117	55	57		2	2		1	8	102	1	3	3
Osceola.....	75	32	39		2	2			30	34	4	7	
Ottawa.....	681	343	327		7	1		8	167	359	24	39	92
Saginaw.....	1080	529	515	1	8	12	6	3	143	266	45	74	552
Sanilac.....	340	180	148	1	4	6	1		36	246	25	33	
Shiawassee.....	522	231	223	1	4	12	1		319	93	32	47	31
St. Clair.....	372	442	407	2	11	9		1	164	521	76	102	9
St. Joseph.....	519	259	233		11	9	1	5	397	76	12	28	6
Tuscola.....	292	144	143	1	2	2			129	62	18	36	47
Van Buren.....	605	300	276		10	6			406	55	19	41	84
Washtenaw.....	711	348	341		3	1		7	336	217	48	56	54
Wayne.....	3704	1879	1783	12	15	23	14	7	973	2424	90	119	93
Wexford.....	19	9	9				1		16			2	1
State.....	27,093	13,572	12,488	64	319	289	63	74	13,060	8,043	1,219	1,904	2,387

* Not returned.

Exhibiting, by Counties, the number of Children born in each Month during the period from January 1st to December 31st, 1869, inclusive.

COUNTIES.	MONTHS.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Alcona.....	---	1	1	---	---	1	---	---	---	---	1	---	---
Allegan.....	49	41	49	45	62	57	66	59	94	53	54	59	---
Alpena.....	6	4	8	8	8	7	12	12	2	8	12	12	---
Antrim.....	5	2	8	6	8	6	4	6	2	7	2	5	---
Barry.....	35	82	80	88	47	85	50	60	49	55	55	56	---
Bay.....	20	7	26	18	22	19	24	31	25	22	24	25	1
Benzle.....	2	2	1	1	1	1	---	4	1	4	8	---	1
Berrien.....	89	45	54	41	52	43	59	77	67	60	57	48	---
Branch.....	34	28	60	61	36	82	47	43	48	51	47	46	1
Calhoun.....	39	41	54	54	53	57	53	37	70	78	71	72	2
Cass.....	26	82	31	40	41	50	52	55	56	51	58	36	1
Charlevoix.....	2	2	2	---	4	6	4	7	8	4	5	5	---

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Jackson.....	30	80	49	60	63	59	70	47	66	74	53	64	1
Kalamazoo.....	56	48	63	49	55	61	73	66	75	75	58	60	2
Kent.....	64	62	60	62	84	97	101	92	121	82	100	78	4
Lapeer.....	29	25	23	25	38	28	44	48	46	32	86	89	...
Leelanaw.....	10	7	8	17	15	10	12	12	11	11	5	15	...
Lenawee.....	38	54	44	59	58	58	66	76	84	66	64	76	1
Livingston.....	25	32	32	29	34	29	58	48	47	41	47	81	1
Macomb.....	48	52	47	40	58	58	64	59	67	45	64	60	...
Manistee.....	11	9	21	10	17	10	18	14	18	18	7	13	...
Marquette.....	18	23	24	30	43	37	37	41	40	25	44	89	1
Mason.....	8	8	5	2	7	5	5	12	10	5	4	8	...
Mecosta.....	8	7	10	14	11	6	21	11	18	11	10	18	...
Menominee.....	1	2	3	6	8	7	8	8	1	...	8	5	...
Midland.....	9	6	7	4	12	5	11	7	7	9	10	6	...
Monroe.....	46	58	58	86	53	58	62	67	79	68	56	63	1
Montcalm.....	16	13	19	18	28	15	34	24	22	23	25	22	...
Muskegon.....	28	30	32	33	23	21	36	50	50	81	35	81	...
Newaygo.....	14	19	10	14	22	18	15	20	26	14	10	19	2
Oakland.....	19	54	55	68	48	58	75	73	75	69	46	61	5
Oceana.....	10	12	19	12	12	23	11	21	19	16	19	15	...
Ontonagon.....	8	10	5	7	17	15	10	7	9	9	9	11	...
Osceola.....	9	6	6	6	9	4	7	8	4	9	2	5	...

MARRIAGES.

The number of marriages from January 1st to December 31st, 1869, was 8,459, or 16,918 persons married. Four thousand nine hundred and forty-nine couples were born in the United States; 1,620 couples were born in various foreign countries; 506 couples were American male and foreign female; 895 couples were foreign male and American female, and 489 couples whose nativity was not stated in the returns.

Seventy-four African and 33 Indian couples were married.

Four thousand three hundred and ninety persons were married under 21 years of age, as follows:

Three hundred and four males aged 20; 136 males aged 19; 51 males aged 18; 10 males aged 17, and 1 male aged 16. Total, 502.

Eight hundred females aged 20; 880 females aged 19; 960 females aged 18; 676 females aged 17; 462 females aged 16; 87 females aged 15; 21 females aged 14; 2 females aged 13, and 1 female aged 10. Total, 3,889.

The largest number of persons (6,490) were married between the ages of 20 and 25; the second greater number (3,522) between the ages of 25 and 30; and 3,471 were married under 20 years of age. The oldest couple married was composed of a farmer aged 72, and a woman aged 80. The youngest couple, a young man aged 22, and a girl aged 10.

The greatest monthly return of marriages was for January,—810; the least number for December,—563.

The number of marriages for each quarter is as follows:

Quarter ending March, 1869.....	2,167
“ “ June, 1869.....	2,097
“ “ September, 1869.....	2,154
“ “ December, 1869.....	2,024
Date of marriage not stated.....	17

The following is the percentage of nativities of persons married, viz:

American.....	58.51
Foreign.....	19.15
American male and foreign female.....	5.98
Foreign male and American female.....	10.58
Nativity unknown.....	5.78

The number of Indians married in proportion to the whole number of marriages is as 1 to 256½.

The number of Africans married, in proportion to all marriages, is nearly 1 to 115.

The following analysis shows the percentage of persons married at certain periods of life, including both sexes:

Under 20 years.....	20.527
From 20 to 25 years.....	38.362
“ 25 to 30 “.....	20.818
“ 30 to 35 “.....	7.678
“ 35 to 40 “.....	4.102
“ 40 to 45 “.....	2.293
“ 45 to 50 “.....	1.714
“ 50 to 55 “.....	1.099
“ 55 to 60 “.....	.715
“ 60 to 65 “.....	.437
“ 65 to 70 “.....	.218
“ 70 to 75 “.....	.124
“ 75 to 80 “.....	.047
Over 80 years.....	.004
Unknown ages.....	1.862

Among the remarkable features in the returns of marriages is the difference shown in the ages of the parties joined. Below is given a synopsis of the marriages exhibiting the greatest disparity in age, also showing the occupation of the bridegroom:

Allegan—Man aged 72, chairmaker, married to woman aged 60

Alpena—Man 31, lumberman, woman 40.

Barry—Man 76, unknown, woman 36.

Bay—Man 65, laborer, woman 63.

Berrien—Boy 17, farmer, girl 19.

Branch—Boy 18, farmer, girl 17.

Calhoun—Boy 18, farmer, girl 16.

Cass—Boy 17, farmer, girl 16.

Clinton—Man 64, farmer, woman 54.

Eaton—Man 22, mason, girl 10.

Emmet—Boy 19, laborer, girl 18.

Genesee—Boy 19, laborer, girl 16.

Grand Traverse—Man 63, farmer, woman 53.

Gratiot—Man 66, farmer, woman 51.

Hillsdale—Man 38, clerk, woman 69.

Houghton—Man 24, miner, woman 30.

Huron—Man 56, minister of the gospel, woman 53.

Ingham—Boy 19, farmer, woman 25.

Ionia—Man 70, blacksmith, woman 70.

Iosco—Boy 19, sailor, girl 17.

Isabella—Boy 17, farmer, woman 25.

Jackson—Man 67, merchant, woman 52.

Kalamazoo—Boy 20, farmer, woman 47.

Kent—Man 49, farmer, woman 78.

Lapeer—Boy 17, farmer, girl 14.

Leelanaw—Boy 20, farmer, girl 14.

Lenawee—Man 65, farmer, woman 55.

Livingston—Man 72, farmer, woman 80.

Macomb—Man 73, farmer, woman 62.

Manistee—Boy 18, farmer, girl 16.

- Marquette*—Man 32, laborer, woman 45.
Mason—Man 23, farmer, woman 33.
Mecosta—Boy 16, farmer, girl 16.
Midland—Boy 18, farmer, girl 17.
Monroe—Man 25, laborer, woman 59.
Montcalm—Man 76, farmer, woman 67.
Muskegon—Man 25, farmer, girl 14.
Newaygo—Man 67, farmer, woman 56.
Oakland—Man 38, farmer, woman 60.
Oceana—Man 50, mechanic, girl 19.
Ontonagon—Man 26, sailor, girl 13.
Osceola—Man 29, farmer, girl 17.
Ottawa—Man 50, farmer, girl 17.
Saginaw—Man 71, painter, woman 71.
Sanilac—Man 24, farmer, woman 34.
Shiawassee—Man 66, R. R. employe, woman 24.
St. Clair—Boy 18, farmer, girl 18.
St. Joseph—Man 61, farmer, woman 61.
Tuscola—Man 76, carpenter, woman 24.
Van Buren—Man 67, farmer, woman 72.
Washtenaw—Boy 19, farmer, girl 14.
Wayne—Man 40, unknown, girl 15.
Wexford—Boy 19, farmer, girl 16.

The following comprehensive table exhibits the ages respectively of all the parties married during the time embraced in this report:

AGES OF MALES.	AGES OF FEMALES.															Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.	
Under 20.....	179	87	5													221
20 to 25.....	1,897	1,898	179	90	5	1	1								24	8,580
25 to 30.....	787	1,067	471	78	22	6	2		1						12	2,461
30 to 35.....	164	823	232	124	88	6	2								3	887
35 to 40.....	57	118	111	95	44	19	9			1					1	455
40 to 45.....	18	24	68	41	45	81	13	5								250
45 to 50.....	6	17	82	39	41	80	19	7	3				1		1	196
50 to 55.....	8	8	10	20	30	25	18	12	4	1						181
55 to 60.....		3	4	7	14	11	17	12	8	1						77
60 to 65.....		1	3	1	6	6	6	11	9	9						52
65 to 70.....		1			2	2	6	5	10	4	2	1	1			34
70 to 75.....				1	1	1	2	4	3	4		2		1		19
75 to 80.....		1				1		1		1	3					7
Over 80.....																
Unknown.....	1	2		1											135	139
Total Females.	8,107	8,015	1,115	442	243	139	95	57	38	21	5	3	2	1	176	8,450

5.93 per cent of the males, or about 1 in 16, were married under the age of 21 years.

45.98 per cent of the females, or nearly 1 in 2 $\frac{1}{4}$, were married before reaching the 21st year.

TABLE I.—MARRIAGES.

Showing, by Counties, the number of Marriages in which the Races of the parties were other than White:

COUNTIES.	RACES.	
	AFRICAN.	INDIAN.
Allegan.....	2	--
Antrim.....	--	1
Bay.....	--	1
Berrien.....	4	--
Cass.....	12	--
Clinton.....	1	--
Emmet.....	--	12
Genesee.....	1	--
Gratiot.....	1	--
Isabella.....	--	4
Jackson.....	3	--
Kalamazoo.....	8	--
Leelanaw.....	--	12
Lenawee.....	2	--
Livingston.....	1	--
Marquette.....	1	--
Newaygo.....	--	1
Oakland.....	5	--
Oceana.....	--	1
Ottawa.....	1	--
Saginaw.....	2	--
St. Clair.....	1	--
Van Buren.....	1	1
Washtenaw.....	4	--
Wayne.....	24	--
State.....	74	23

TABLE II.

Exhibiting by Counties and by State, the percentage of Marriages to Population.

COUNTIES.	Total Marriages.	Total Population.	Percent. of Marriages to Popula'n
Alcona.....	5	760	0.65
Allegan.....	260	32,151	0.80
Alpena.....	42	3,111	1.35
Antrim.....	14	2,409	0.58
Barry.....	140	22,070	0.63
Bay.....	86	15,900	0.54
Benzie.....	12	2,184	0.54
Berrien.....	314	35,010	0.89
Branch.....	235	26,244	0.90
Calhoun.....	164	36,172	0.45
Cass.....	149	21,097	0.70
Charlevoix.....	6	1,724	0.34
Cheboygan.....	15	2,197	0.68
Chippewa.....	.....	1,690	.....
Clinton.....	166	22,836	0.63
Delta.....	.....	2,441	.....
Eaton.....	143	25,190	0.56
Emmet.....	12	1,211	0.90
Genesee.....	248	33,910	0.73
Grand Traverse.....	81	4,443	0.69
Gratiot.....	90	17,859	0.50
Hillsdale.....	223	31,705	0.61
Houghton.....	63	13,905	0.45
Huron.....	67	9,053	0.74
Ingham.....	168	25,231	0.66
Ionia.....	206	27,676	0.74
Iosco.....	14	3,167	0.44
Isabella.....	32	4,479	0.71
Jackson.....	236	36,032	0.65
Kalamazoo.....	231	32,063	0.72
Kent.....	505	50,330	1.00

TABLE II—CONTINUED.

COUNTIES.	Total Marriages.	Total Population.	Percent. of Marriages to Popula'n
Keweenaw.....	-----	4,206	-----
Lapeer.....	139	21,355	0.65
Leelanaw.....	42	4,576	0.91
Lenawee.....	325	45,635	0.71
Livingston.....	119	19,389	0.61
Mackinac.....	-----	1,716	-----
Macomb.....	161	27,617	0.58
Manistee.....	68	6,074	1.11
Manitou.....	-----	391	-----
Marquette.....	75	14,982	0.50
Mason.....	27	3,266	0.80
Mecosta.....	74	5,645	1.31
Menominee.....	11	1,898	0.58
Midland.....	27	3,321	0.81
Monroe.....	213	27,486	0.77
Montcalm.....	83	18,561	0.66
Muskegon.....	153	14,399	1.02
Newaygo.....	53	7,364	0.72
Oakland.....	330	40,398	0.80
Oceana.....	64	7,222	0.88
Ontonagon.....	15	2,805	0.52
Osceola.....	15	2,653	0.56
Ottawa.....	177	26,658	0.66
Saginaw.....	132	33,902	0.46
Sanilac.....	91	14,564	0.62
Shiawassee.....	129	20,356	0.61
St. Clair.....	264	36,337	0.71
St. Joseph.....	239	26,069	1.03
Tuscola.....	74	13,715	0.53
Van Buren.....	179	23,333	0.62
Washtenaw.....	300	41,449	0.72
Wayne.....	904	119,035	0.76
Wexford.....	4	740	0.56
State.....	8,450	1,190,137	0.63

TABLE III—MARRIAGES.

Distinguishing by Counties and by Months, the number of Marriages Registered from January 1st to December 31st, 1869, inclusive.

COUNTIES.	MONTHS.													
	No. of Marriages.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Alcona.....	5	--	3	--	--	1	1	--	--	--	--	--	--	--
Allegan.....	260	20	25	13	24	22	17	18	11	34	26	21	29	--
Alpena.....	42	1	1	2	5	7	1	5	6	4	2	7	1	--
Antrim.....	14	1	--	3	2	--	1	--	--	1	3	1	2	--
Barry.....	140	13	11	15	9	14	11	8	12	11	9	17	10	--
Bay.....	86	7	2	3	8	13	8	7	6	7	9	12	9	--
Benzie.....	12	--	--	--	--	2	--	5	--	1	--	1	3	--
Berrien.....	314	26	36	32	29	26	23	19	24	30	34	16	18	1
Branch.....	235	30	19	20	13	20	12	24	13	26	26	15	17	--
Calhoun.....	164	23	11	19	16	11	11	8	10	19	12	15	4	--
Cass.....	149	11	13	22	21	9	8	10	13	19	9	7	6	1
Charlevoix.....	6	--	1	--	--	1	--	1	1	1	--	1	--	--
Cheboygan.....	15	2	1	1	1	3	--	1	--	2	--	1	2	1
*Chippewa.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Clinton.....	156	19	17	14	21	7	13	12	11	13	16	9	4	--
*Delta.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Eaton.....	143	16	13	16	6	10	14	17	11	12	16	6	6	--
Emmet.....	12	1	4	--	--	--	--	3	1	--	--	2	1	--
Genesee.....	243	23	21	19	26	21	22	21	23	27	21	16	8	--
Gr'd Traversac..	31	4	2	3	4	4	4	2	3	1	2	1	1	--
Grafton.....	90	12	7	7	4	4	3	8	7	5	13	7	14	--
Hillsdale.....	223	30	31	31	25	13	14	23	14	16	9	5	6	1
Houghton.....	63	6	5	3	4	8	7	5	5	4	9	5	2	--
Huron.....	67	5	4	6	3	7	5	9	5	3	4	7	9	--
Ingham.....	163	11	12	11	15	19	12	14	15	24	13	11	6	--
Ionia.....	206	25	13	21	13	15	15	31	13	17	13	14	11	--

* Not returned.

TABLE III—CONTINUED.

COUNTIES.	No. of Marriages.	MONTHS.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Iosco	14	..	1	2	1	1	1	..	1	1	2	2	2
Isabella	82	4	3	1	1	5	2	2	..	4	5	8	1
Jackson	286	26	28	21	26	26	15	23	15	18	21	18	9
Kalamazoo	281	23	21	18	17	26	22	21	20	21	19	16	7
Kent	505	54	39	40	44	43	45	40	22	36	50	44	42
*Keweenaw .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Lapeer	189	21	7	10	17	15	11	12	10	14	5	12	5
Leelanaw	42	8	2	1	1	8	8	4	2	2	5	2	4
Lenawee	325	34	20	36	33	21	33	23	18	29	37	15	12
Livingston	119	13	12	8	8	8	12	11	13	3	14	12	6
*Mackinac .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Macomb	161	21	12	21	14	10	15	8	7	16	15	11	11
Manistee	68	11	..	2	7	12	4	2	7	9	9	4	1
*Manitou .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Marquette	75	..	1	..	5	5	11	7	16	5	8	12	5
Mason	27	5	2	3	..	1	1	1	..	5	4	3	2
Mecosta	74	11	7	8	6	4	7	6	6	1	6	8	4
Menominee	11	..	..	..	..	2	..	1	2	2	4	..	..
Midland	27	..	..	3	2	5	..	4	1	3	1	1	5
Monroe	213	23	9	13	13	13	16	20	14	22	15	33	17
Montcalm	88	2	7	17	8	7	5	6	5	9	3	6	8
Muskegon	153	5	11	11	13	13	12	15	16	11	15	14	15
Newaygo	53	8	4	5	5	4	2	5	5	4	3	3	5
Oakland	330	13	33	33	26	20	13	35	13	26	34	43	36
Oceana	64	9	4	3	4	3	2	10	5	5	7	1	1
Ontonagon	15	1	..	..	1	..	4	3	3	1	..	1	1
Osceola	15	..	..	..	1	2	1	1	2	3	1	1	3
Ottawa	177	14	6	12	17	23	15	22	11	19	16	13	4
Saginaw	132	3	2	3	4	3	5	13	21	20	26	46	31

* Not returned.

TABLE III—CONTINUED.

COUNTIES.	MONTHS.													
	No. of Marriages.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Sanilac.....	91	9	7	9	4	8	9	11	8	17	9	8	2	...
Shiawassee	129	19	8	17	10	17	9	7	7	18	12	5	5	...
St. Clair.....	264	17	21	18	21	20	16	28	17	27	22	24	23	...
St. Joseph.....	289	27	19	29	23	27	18	21	20	18	24	27	23	4
Tuscola.....	74	5	5	5	7	2	2	7	16	1	5	8	11	...
Van Buren.....	179	29	10	9	13	17	14	15	25	16	8	11	6	1
Washtenaw....	300	23	23	21	24	31	20	22	21	27	24	27	16	1
Wayne.....	904	26	51	70	26	108	71	82	77	95	74	60	47	2
Wexford.....	4	..	..	1	..	1	..	1	..	..	1	..	..	...
Total.....	8,459	310	641	716	716	758	623	750	629	775	775	696	568	17

MARRIAGES.

[illegible]

*** Not returned.**

THIRD REGISTRATION REPORT.

TABLE IV—CONTINUED.

COUNTIES.	No. Couples.		Nativity.					AGES IN YEARS.												Unknown.		
			American.	Foreign.	Amer. Males and Females.	For. Males and Females.	Unknown.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.		75 to 80.	Over 80.
Leelanaw.....	42	18	15	5	9	4	---	28	82	13	6	2	---	1	---	---	---	---	---	---	---	---
Lenawee.....	325	248	20	11	29	17	17	156	256	95	42	23	17	11	8	2	6	2	---	---	---	---
Livingston.....	119	98	9	8	9	5	---	89	86	54	20	10	6	7	8	5	4	2	1	---	---	1
*Mackinac.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Macomb.....	161	87	45	9	20	---	---	58	126	86	25	10	9	1	---	2	2	2	1	---	---	---
Manistee.....	68	28	84	4	5	2	---	22	51	88	20	7	---	1	---	---	---	---	---	---	---	2
*Manitou.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marquette.....	75	8	61	1	5	---	---	29	64	89	12	4	---	2	---	---	---	---	---	---	---	---
Mason.....	27	18	7	2	4	1	---	11	15	14	6	4	1	1	2	---	---	---	---	---	---	---
Mecosta.....	74	40	7	9	18	5	---	44	61	26	12	2	1	1	1	---	---	---	---	---	---	---
Menominee.....	11	1	2	---	7	1	---	8	9	7	9	1	---	---	---	---	---	---	---	---	---	---
Midland.....	27	15	8	2	6	1	---	13	20	9	5	1	2	1	1	---	---	---	---	---	---	2
Monroe.....	218	129	85	12	25	12	12	70	168	98	22	28	8	7	2	8	2	1	---	---	---	82
Montcalm.....	89	55	9	6	11	7	7	37	60	34	7	11	8	11	8	---	---	2	---	---	---	8

MARRIAGES.

Muskogon.....	136	57	51	11	27	7	70	115	64	20	4	6	4	7	1	2	7
Norwaygo.....	58	94	4	6	7	2	87	37	12	9	4	2	1	1	1	1	....
Oakland.....	380	215	27	17	26	48	111	245	145	58	25	12	15	18	5	1	80
Oceana.....	64	41	12	3	8	....	36	48	22	8	9	3	4	8	2	....	....
Ontonagon.....	15	1	10	1	3	....	7	12	5	2	3	....	1	....	....	....	....
Oscola.....	15	8	5	1	1	....	8	11	9	1	....	....	....	....	....	....	....
Ottawa.....	177	56	80	14	21	6	67	111	90	26	28	10	7	8	4	5	5
Saginaw.....	182	67	75	11	26	8	45	148	102	33	17	7	4	1	....	2	9
Sanilac.....	91	7	60	14	10	....	48	68	26	16	8	10	3	4	2	....	....
Shiawassee.....	129	80	5	7	19	0	53	94	45	21	10	9	7	1	2	1	10
St. Clair.....	264	39	128	39	52	6	109	202	100	48	24	14	10	4	5	8	4
St. Joseph.....	288	245	18	5	7	14	99	261	116	38	21	7	6	11	8	6	2
Tuscola.....	74	38	12	11	6	7	40	45	36	12	8	2	1	1	....	1	7
Van Buren.....	179	140	5	5	13	16	83	127	69	23	13	9	12	5	7	8	4
Washtenaw.....	300	176	57	12	27	28	85	259	167	36	18	8	5	7	1	....	18
Wayne.....	904	277	325	89	133	80	252	659	448	147	88	47	28	9	10	8	121
Wexford.....	4	8	....	....	....	1	8	1	3	....	....	....	....	1	....	....	....
Total.....	8,459	4,949	1,620	506	895	459	3,471	6,490	3,522	1,299	694	359	390	136	121	74	815

*** Not returned.**

TABLE V.—MARRIAGES.

Showing, by Counties, the respective ages of the Males and Females, and the total number Married under the age of Twenty-one years; and also, the whole number of persons Married in the State from January 1st to December 31st, 1869.

COUNTIES.	AGES OF MALES.							AGES OF FEMALES.							Total Males Married under 21 years.	Total Females Married under 21 years.	Total Males and Females Married under 21 years.	Whole No. of Persons Married in the State.			
	AGES OF MALES.							AGES OF FEMALES.													
	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.					Fourteen.	Thirteen.	
Alcona.....	1	..	..	..	..	..	..	..	19	29	31	25	17	4	..	..	1	14	125	139	520
Allegan.....	9	2	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	16	17	84
Alpena.....	1	..	..	..	..	..	..	..	2	5	8	4	2	..	..	..	..	2	11	18	28
Antrim.....	1	1	..	..	..	..	..	..	4	1	1	1	3	1	..	..	..	10	65	75	280
Barry.....	8	1	1	..	..	..	..	..	7	9	22	11	12	8	1	..	..	1	40	41	172
Bay.....	1	..	..	..	..	..	..	..	8	16	6	9	1	..	..	..	..	.....	6	6	24
Benzie.....	..	..	..	..	..	..	..	..	..	2	1	2	..	1	..	..	..	26	179	205	628
Berrien.....	13	8	4	1	..	..	..	..	32	39	60	28	22	2	1	..	..	24	122	146	470
Branch.....	19	8	3	..	..	..	..	..	20	24	38	29	12	4	..	..	..	11	45	56	328
Calhoun.....	4	4	3	..	..	..	..	..	10	12	8	7	6	2	..	..	..	11	45	56	328

MARRIAGES.

Cass.....	6	1	..	1	..	..	..	..	15	18	17	8	11	1	..	9	70	78	898
Charlevoix.....	--	--	--	--	--	--	--	--	--	1	2	--	1	--	--	----	4	4	13
Cheboygan.....	--	1	--	--	--	--	--	--	--	1	8	8	4	1	--	1	12	18	80
*Chippewa.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	-----	-----	-----
Clinton.....	19	8	1	--	--	--	--	--	16	20	19	10	11	2	--	16	78	94	819
*Delta.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	-----	-----	-----
Eaton.....	6	6	2	--	--	--	--	--	19	12	20	16	12	2	--	14	81	95	886
Emmet.....	5	3	--	1	--	--	--	--	--	--	1	8	2	--	--	8	6	14	24
Genesee.....	10	8	1	--	--	--	--	--	28	29	33	19	12	5	1	19	127	146	496
Grand Traverse.....	1	--	--	--	--	--	--	--	2	8	2	2	1	1	2	1	18	19	62
Gratiot.....	5	2	1	--	--	--	--	--	8	18	11	18	6	2	--	8	68	71	180
Hilledale.....	10	6	2	--	--	--	--	--	81	88	25	14	14	1	--	18	118	186	446
Houghton.....	8	--	--	--	--	--	--	--	7	6	8	8	--	--	1	8	25	28	126
Huron.....	2	1	--	--	--	--	--	--	6	5	7	8	8	2	--	8	86	89	184
Ingham.....	7	5	4	--	--	--	--	--	11	16	21	18	7	8	--	16	71	87	886
Ionia.....	8	1	--	--	--	--	--	--	17	28	23	14	17	2	--	9	96	105	419
Iosco.....	2	1	--	--	--	--	--	--	2	1	2	1	--	--	--	8	6	9	28
Isabella.....	1	--	--	1	--	--	--	--	8	2	4	5	4	2	2	2	22	24	64
Jackson.....	7	5	--	--	--	--	--	--	88	27	22	19	11	1	--	13	118	125	473
Kalamazoo.....	10	8	1	--	--	--	--	--	19	30	19	24	8	2	--	14	108	116	463
Kent.....	16	4	4	1	--	--	--	--	58	52	52	41	30	8	1	25	243	267	1010
*Keweenaw.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	-----	-----	-----

TABLE V—CONTINUED.

COUNTIES.	AGES OF MALES.							AGES OF FEMALES.							Total Males Married under 21 years.	Total Females Married under 21 years.	Total Males and Females Married under 21 years.	Whole No. of Persons Married in the State.
	AGES OF MALES.							AGES OF FEMALES.										
	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.		
Lapeer.....	7	1	1	1	1	1	1	1	17	12	27	11	6	8	1	..	56	278
Leelanaw.....	4	5	..	..	..	..	..	..	7	4	8	6	7	1	1	..	88	84
Lenawee.....	15	2	2	..	..	..	..	..	24	40	43	25	6	..	..	..	172	650
Livingston.....	3	4	1	..	..	..	..	..	12	9	14	7	4	..	..	..	54	228
* Mackinac.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Macomb.....	4	..	..	..	..	..	..	..	11	15	22	14	4	1	..	..	71	322
Manistee.....	3	..	..	..	..	..	..	..	6	8	8	4	6	..	..	..	20	136
* Manitou.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Marquette.....	2	..	..	..	..	..	..	..	8	6	9	8	5	..	..	..	86	150
Mason.....	2	..	..	..	..	..	..	..	8	4	8	1	1	..	..	..	14	54
Mecosta.....	8	8	1	..	1	8	11	10	6	9	2	46	148
Menominee.....	1	1	..	2	4	22
Midland.....	1	8	3	2	4	1	2	13	54

MARRIAGES.

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Mource.....	5	3	2	2	9	1	15	23	9	19	10	2	--	--	12	77	89	496
Montcalm.....	2	2	--	--	--	--	6	7	7	10	8	2	1	--	4	41	45	176
Muskegon.....	7	1	--	--	--	--	15	16	13	16	15	2	1	--	8	83	91	306
Newaygo.....	2	2	--	--	--	--	5	6	7	10	7	2	1	--	4	88	42	106
Oakland.....	7	8	--	--	--	--	30	32	43	11	13	--	--	--	15	129	144	669
Oceana.....	1	2	1	--	--	--	5	8	8	9	8	--	--	--	4	38	42	128
Ontonagon.....	--	--	--	--	--	--	2	2	1	2	1	--	--	1	---	9	9	30
Oscoda.....	--	--	--	--	--	--	2	1	1	4	2	--	--	--	---	10	10	30
Ottawa.....	10	2	8	--	--	--	14	19	19	9	12	1	2	--	15	76	91	354
Saginaw.....	1	2	--	--	--	--	20	18	9	9	6	2	--	--	8	59	62	364
Sanilac.....	4	--	--	--	--	--	7	12	15	7	10	4	--	--	4	55	59	182
Shiawassee.....	6	2	--	--	--	--	13	16	13	7	7	1	1	--	8	53	66	236
St. Clair.....	9	8	8	--	--	--	22	23	40	26	10	2	1	1	15	125	140	528
St. Joseph.....	6	3	--	--	--	--	37	27	27	30	10	1	1	--	9	133	142	578
Tuscola.....	2	2	--	--	--	--	6	10	13	8	6	--	--	--	4	43	47	148
Van Buren.....	5	4	2	--	--	--	16	19	21	20	16	--	--	--	11	92	103	358
Washtenaw.....	4	4	1	--	--	--	29	28	27	13	10	--	1	--	9	103	117	600
Wayne.....	23	12	6	1	--	--	60	72	73	46	25	7	1	--	42	298	340	1305
Wexford.....	--	1	--	--	--	--	--	--	--	--	2	--	--	--	1	2	3	8
State.....	304	136	51	10	1	--	300	330	960	376	462	37	21	2	502	3,333	4,330	16,913

* Not returned.



DEATHS.

As time passes, the importance of exact knowledge seems to be better appreciated. Statistics, vital, social, and commercial, are demanded. Men now feel that they cannot be well convinced on these points except they see the figures, or at least know that the statements which they receive are made by those who have seen them. Questions of life and death come more and more to be considered as mathematical problems, requiring a basis of facts, from which to deduce correct conclusions; and the value of such conclusions is certainly very great compared with the common opinion formed, as it must be, by guess from uncertain data. Except by means of statistics, physicians cannot certainly know whether over a given disease they are gaining or losing control, whether even the general result of their efforts is better or worse than in times past. The common opinion may be that the race is degenerating,—that the average age of man is decreasing,—but without statistics the truth or falsity of the opinion cannot be known. In no other way can be shown the influence on mortality of climate, sex, age, occupation, and different social states; and of various other conditions, which when known, may be avoided.

Absolute truth is not claimed for any statistics, but while it seems proper to bear in mind the limited time during which, in this State, the various officers have been gaining familiarity with their duties, and the chances for error in consequence of this, and of the returns being copied once before reaching this office, still the value of the materials for these statistics of deaths is in most particulars believed to be nearly equal to the best.

Probably not all deaths are yet recorded, and the per cent to population in all cases may therefore be slightly less than the truth, but it seems just as probable that the *proportion* of deaths from the various causes does not suffer much disturbance from this source. There seems no reason for concluding that the proportion of the sexes is far from right; and the same may be said of the ages of adults. No doubt, through careless or unskillful manipulation, the results of some of the more delicate changes and unfavorable forces escape us; but, in the aggregate, the combined results in many cases become so plainly apparent that the various mistakes of many men cannot obliterate them.

The extent of territory and variety of climate and soil within the limits of this State render it a particularly favorable one for gaining valuable and comprehensive knowledge of the influence of various conditions upon the rate and causes of mortality. There is here an opportunity to compare in the Upper and Lower Peninsulas, counties differing by four degrees of latitude, inland counties with those on the east and west lake shore, the two shores with each other, and, what is unusually fortunate, old counties with those just being settled.

There are good reasons for believing, and indeed there can be no question, that the geological formation of a locality has very great influence on the rate of mortality from certain causes. It seems especially evident, when we remember that upon this the character of the water supply generally depends. The examination of this latter subject by scientific men in this State has lately received a new impulse on account of the numerous mineral springs and wells that have been discovered. Doubtless the public will eventually receive the benefit of the great increase of knowledge on this subject which will result from the additional examination and thought which it is receiving. This knowledge itself will be of the greatest consequence, for many of the most useful agents are so, through their skillful and proper use.

The whole number of deaths reported for 1869 was 9,145. Of this number 4,796 were males, 4,306 females, and 43 sex not given.

The proportion of the total number of deaths to population is very low, compared with other older States and cities, being only .775 per cent, or not quite eight per 1,000. One death to every 128 persons living in June, 1870.

The census used in computing the various percentages was taken in June, 1870, about six months after the close of the year in which the deaths occurred. Compared with the census of 1860 it shows an average yearly increase of about forty-four thousand. Deducting thirty thousand—eight thousand more than one-half of the average yearly increase—and again computing the death-rate for the State, we find that it is then only .796 per cent. It is still less than eight per 1,000. After this deduction, and making due allowance for many deaths which may not have been reported, the death-rate is still quite low. The standard aimed at in England at present is 17 per 1,000, but the rate for all England is about 22. It should be remembered in this connection that the population there is much more dense than here. The death-rate in New York city in 1869 was 25.13 per 1,000, computed on an estimated population of 1,000,000. In Brooklyn it was 22.59 per 1,000, with an estimated population of 370,000. This mortality, however, is estimated by Sanitary Supt. Dr. Harris, to be "fully 15 per centum too great; and it should be regarded as the duty of sanitary government and civic improvement to reduce the rate to an average of from 17 to 20 per 1,000 yearly. The fact must be borne in mind, however, that the death-rate in New York will have certain peculiarities that arise from the vast preponderance of the poor and ignorant classes, which comprise fully 65 per centum of the total population." In Massachusetts the death-rate for 1868 was 2.02 per cent., or 20.2 per 1,000 inhabitants in 1865.

TABLE I.

Deaths by quarters of the year.

QUARTER ENDING	Deaths, 1869.	Per Cent to Total.
March.....	1,758	19.21
June.....	1,994	21.80
September.....	2,949	32.24
December.....	2,396	26.20
Unknown months.....	48	.52
Total.....	9,145	100.00

This table shows that the least number of deaths occurred in the first quarter. In Massachusetts, and also in Rhode Island, the second quarter is the one in which the least number occur. There, June has usually the least mortality; our order of mortality, by months, for 1869, shows January to have had the least. The report of the Metropolitan Board of Health for 1869 also shows January to have been the most favorable to life in New York City, although the least mortality for a full quarter was during the one ending with December.

The greatest mortality was during the third quarter, as it is usually reported to be in other States.

The influence of season seems to have been greater than it usually is in the other States and cities with which our statistics have been compared. In New York City, in 1869, there was a difference between the mortality of highest and lowest quarters of only about six per cent. In Massachusetts, for a number of years previous, this difference has not been over about nine per cent. It will be seen from this table that there was here, in 1869, a difference of about thirteen per cent between the lowest quarter, ending with March, and the highest quarter, ending with September.

TABLE II.
Order of Total Mortality by Months.

MONTHS, 1889.	DEATHS.
1. September.....	1194
2. August.....	1068
3. October.....	874
4. December.....	836
5. March.....	761
6. April.....	712
7. July.....	687
8. November.....	686
9. May.....	652
10. June.....	630
11. February.....	561
12. January.....	436
Average.....	758

The greatest number of deaths occurring in any one month was 1,194, in September. By referring to Table XVI, it will be seen that this was not mainly due to any one special disease, but to a general fatality in many; though more especially among the several diseases of the bowels and brain. There was also, in this month, an increased number of deaths of children teething, and also of deaths from old age. It seems to be a self-evident proposition, that any unfavorable, non-specific influence will fall with greatest effect upon the weakest of the race, for they will be least able to withstand it. We might therefore reasonably expect that an increased rate of mortality from a general cause—such, for instance, as extreme heat, or important changes in temperature, to which all are more or less subjected—would be accompanied by a greater proportion of deaths among the extremely old and young. If

we turn to the meteorological tables for 1869, we notice that in September the mean daily range of the thermometer was greater than in any other month in the year; and that next to this month was August, which also comes next in the order of mortality. This subject, however, may be more properly treated further on, when considering the causes of death.

TABLE III.

Number and Percentage of Deaths of Males and Females from all causes, by months (unknown sex excluded).

MONTHS.	NUMBER.		PERCENTAGE.		
	Males.	Females.	Males.	Females.	Excess of Males.
January.....	227	207	52.80	47.69	4.61
February.....	317	241	56.80	48.19	8.61
March.....	405	355	53.28	46.71	6.57
April.....	366	345	51.40	48.59	2.81
May.....	344	307	52.84	47.15	5.69
June.....	381	296	52.79	47.20	5.59
July.....	358	323	52.56	47.43	5.13
August.....	568	498	52.34	47.65	4.69
September.....	621	567	52.27	47.72	4.55
October.....	446	424	51.27	48.72	2.55
November.....	349	337	50.73	49.26	1.47
December.....	438	393	52.70	47.29	5.41
Unknown month.....	26	13	66.66	33.33	33.33
Year.....	4,796	4,806	52.69	47.30	5.39

From this table we learn that March, May, June, and December were unfavorable months for males, compared with females, in the order given; the excess per cent of deaths of males being above 5.39, which was the average. Perhaps, however, we should reverse the statement and say that those months were favorable for females, for the first named—March—was

about an average one as regards total mortality, as will be seen by the table preceding. Next to March, the excess of males was greatest in May; it then decreased month by month until November, when the mortality of the sexes was nearly equal. In December it was increased to about the average excess, which was rapidly decreased in January and February; skipping March, in the month of April it was still below what it was in February, rendering March all the more prominent for its greatest difference in mortality of the sexes. Seeking a reason, we find by reference to the table of causes of death that the excess of fifty males in March was due to several immediate causes, whatever may have been the primary unfavorable condition or conditions. Pneumonia caused the death of twelve more males than females; other lung diseases, including typhoid pneumonia, caused twelve more. (In consumption there were eight more females than males, and although, taking the full year, the deaths of males from casualties exceeded those of females from childbirth by fifty-eight, in this month the casualties of males were fully equaled by deaths of females from the cause before mentioned.) From typhoid fever there was an excess of seven males; from scarlatina, of six; from heart disease, four; and from unknown causes, among which may be mentioned some reported "congestion," an excess of nineteen males. Here the great number of cases in which the cause of death was not reported render any accurate analysis for the ultimate cause of this difference difficult, not to say impossible, however plain it may appear that the males were subjected to some influence to which the females were not, or at least only in a less degree. At Lansing, which is near the center of the population, the thermometer went lower in March than in any other month in the year, reaching 2° below zero. The mean daily range was also high, 17.4°, the average for all the months being 15°.

If we exclude consumption, twenty-four out of the fifty greater number of deaths of males were caused by pneumonia

and other lung diseases; and the specified causes to which the other deaths were referred were of such a nature that, all things considered, there seem to be good reasons for believing that the predisposing cause of the excess of deaths of males in March was their greater exposure to the inclemencies of the season, on account of their out-door duties.

TABLE IV.

Exhibiting the number and Sex, per cent to whole number of Deaths, and to total Population, and also percentage and difference between the Sexes of those who died at different periods of life from all causes, during the year 1869.

AGE.	Males.	Females.	Unknown.	Total.	Per Cent of whole No. of Deaths.	Per Cent to Total Population of Counties Returned, 1870.	PERCENT. OF THE SEXES. (Unknown Sex excluded.)			
							Males.	Females.	EXCESS.	
									Males.	Females.
Under 5.....	2117	1768	85	3915	42.81	.881	54.56	45.48	9.18	-----
5 to 10.....	288	176	1	415	4.58	.085	57.48	42.51	4.97	-----
10 to 15.....	181	141	-----	272	2.97	.028	48.16	51.88	-----	8.67
15 to 20.....	168	206	-----	374	4.08	.081	44.91	55.08	-----	10.17
20 to 30.....	880	521	-----	881	9.68	.074	40.86	59.18	-----	18.27
30 to 40.....	289	380	-----	619	6.76	.052	46.68	58.31	-----	6.68
40 to 50.....	275	245	-----	520	5.68	.044	52.88	47.11	5.77	-----
50 to 60.....	812	281	-----	548	5.92	.046	57.47	42.52	14.95	-----
60 to 70.....	866	272	-----	638	6.96	.054	57.86	42.68	14.78	-----
70 to 80.....	291	209	-----	500	5.46	.042	58.20	41.80	17.40	-----
80 and over.....	148	121	-----	264	2.88	.022	54.16	45.88	8.88	-----
Unknown.....	106	91	7	204	2.12	.015	58.80	46.19	7.61	-----
Total.....	4,796	4,806	43	9,145	100.00	.775	52.69	47.80	5.89	-----

In this table two or three points immediately attract attention: The very great mortality under five years of age, the next greatest between twenty and thirty, and the excess of deaths of males and females at different ages. The first Report in this State showed that of the deaths from all causes "34.43 per cent were those of children under five years of age." In the second report this was increased to 41.27 per cent. The above table shows that in 1869 the proportion was still further increased, being 42.81 per cent.

Possibly the explanation of a part of this increase in last Report may be that the more thorough collection of the statistics resulted in obtaining the records of a greater proportion at this age, because the death of an adult generally creates a greater sensation and is more certain to be recorded than is the death of a child. On the first trial more deaths of children than of adults would, probably, for this reason escape collection, and a better execution of the law would consequently give a greater proportion under five years of age. Probably the increased proportion was also partly owing to the fact that the second report was for only nine months of the year, excluding the winter months, when the proportion of adults to those of children was doubtless greater than in summer. How much was due to this fact was intended, among other things, to be shown by a table exhibiting the number of persons who died at different periods of age in each month, but it has been found impossible to make up the table in time for this Report, as it would involve another compilation from the original returns.

In this third Report, which includes the full calendar year, the proportion is increased over that of the second by 1.54 per cent. Nearly this amount, however, is due to the addition of still-births this year, they being 1.41 per cent of the total number of deaths. We may still account for the difference between this full year and the first one without concluding that there was an increased proportional mortality among children,—by considering the difference due to a better col-

lection of records of that class of deaths, amounting to sufficient, since last report, to equal the reduction of proportion caused by including winter months. In other words, it does not necessarily follow from the statistics that there was, during the year 1869, an increased mortality of children under five years of age.

The per cent of deaths at the different ages to the population at those ages, or of each sex to the male and female population, cannot be given, as the census statistics have not yet been worked out sufficiently to furnish the data. As will be seen, the proportion of deaths under five to total population was .331 per cent, while the deaths at all ages were only .775 per cent of the population.

The whole number of deaths under five was 3,915. Among the many specified causes of death may be mentioned the following as the most prominent: Diarrhea, reported as the cause of 261 deaths; dysentery, of 187; cholera infantum, 108; bowel disease (kind not specified), 20. Pneumonia is charged with the death of 233; consumption, 111; croup, 94; lung disease, 56. Cephalitis caused the death of 146; convulsions, 58; brain diseases (not specified) 145. The other causes can be seen by reference to Table XVI, "Specified Causes of Death, Alphabetically Arranged." We have here a total of one thousand four hundred and nineteen deaths of children under five years of age, from prominent diseases affecting the alimentary canal, air passages, and nervous system.

That a large proportion of these deaths were due to insufficient and unsuitable clothing, and improper diet, will probably not be questioned by any who have given the subject much attention, although it seems plain that a majority of the people do not appreciate two very important facts in this connection. First, that human young are born into this cold world from a uniform temperature of about 100° F., and cannot be expected to withstand sudden changes, or a great degree of cold, as well as old settlers, and especially not when less

warmly clothed. The second, that the young of all animals—human young included—are by nature supplied with animal food, and ought not, at first, to be expected to thrive on food composed mainly of starch, or other vegetable substance.

The two or three hundred deaths between the ages of twenty and thirty years, in excess of the number in either the ten years preceding or succeeding, are fully accounted for by reference to three causes, viz: consumption, typhoid fever, and childbirth; which respectively caused the death of three hundred and thirteen, ninety-six, and sixty persons aged as above stated. The total number of deaths of those within that period was eight hundred and eighty-one.

The average proportion of deaths of the sexes for the year was 5.39 per cent more males than females. Whether or not this corresponds with the proportion of male and female population, we have as yet no means of knowing. The different influence upon the sexes of the conditions connected with age is, however, well and strikingly shown by this table. It will be seen that there was more than an average excess of males under five—slightly less than the average between five and ten; this change was continued, and from ten to fifteen there were 3.67 per cent more females than males; it was increased until thirty, when it declined from thirty to forty, being 6.63 per cent more females than males. After forty there were more deaths of males than females, the difference being greatest during the period between the ages of seventy and eighty.

The most marked contrast of the sexes was between the ages of twenty and thirty, when there were one hundred and sixty-one or 18.27 per cent more deaths of females than males. This was mainly due to four causes, viz: consumption, childbirth, dropsy, and pneumonia; the excess from these causes being respectively eighty-seven, sixty, twenty, and fourteen. As, in a certain sense, an offset to deaths from childbirth, should be noticed that of the deaths from casualties there were twenty-four more males than females; leaving, after these have

been subtracted, an excess of one hundred and fifty-seven females during this period of life from the four above mentioned causes.

The following table is the same as the one in last Report, except that in this the sex is given by counties, months, and periods of age, instead of simply by counties for the year. It therefore shows the influence of the conditions connected with season and age upon the mortality of the sexes, as well as upon the total mortality in each county; and also the number of deaths of each sex during the year in every county from which returns have been received.

THIRD REGISTRATION REPORT.

TABLE V—CONTINUED.

COUNTIES.	Sex.	MONTHS.												AGES.													
		1899.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Alpena.....	Total.....	30	1	2	2	1	2	2	2	8	8	8	2	4	...	23	1	1	1	2	1	1	1	1	1	1	...
	Male.....	14	...	1	1	...	1	1	1	1	3	2	1	4	...	12	...	...	...	...	1	...	...	...	...	1	...
	Female.....	16	1	2	1	1	1	1	1	7	...	1	1	...	...	11	1	...	1	2	...	...	1	...	...	...	...
Antrim.....	Total.....	10	...	1	1	1	1	4	...	...	...	1	2	...	...	8	...	...	...	1	1	1	...	...	...	...	...
	Male.....	6	...	1	...	...	1	2	...	...	...	1	1	...	...	5	...	...	...	...	1	...	...	...	...	...	...
	Female.....	4	...	...	1	...	1	2	...	...	...	...	1	...	...	3	...	...	...	1	...	...	...	...	...	...	...
Barry.....	Total.....	133	11	2	11	10	14	12	13	21	14	6	17	23	...	62	3	12	12	10	13	17	5	11	3	4	1
	Male.....	82	4	1	7	4	7	5	8	15	5	4	7	15	...	37	2	8	5	6	5	4	5	6	2	1	1
	Female.....	71	7	1	4	6	7	7	5	6	9	2	10	7	...	25	1	4	7	4	8	13	...	5	1	3	...
Bay.....	Total.....	116	6	6	8	10	15	13	8	20	8	13	6	8	...	49	12	2	6	20	11	8	5	8	4	1	...
	Male.....	76	6	4	8	4	8	7	7	11	5	10	5	6	...	32	6	1	5	13	9	3	3	1	2	1	...
	Female.....	40	...	2	...	6	7	6	1	9	3	3	1	2	...	17	6	1	1	7	2	...	2	2	2

DEATHS.

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Benzle.....	{ Total... 20 1 1 1 4 8 2 1 8 1 14 2 1 1 2 2	
	{ Male... 7 1 1 2 1 1 2 1 2 6 1 1 1 1 1 1	
	{ Female... 13 1 1 2 2 1 1 1 1 8 1 1 1 1 1 1	
Berrion.....	{ Total... 215 9 15 14 15 18 15 19 29 19 14 22 1 94 8 8 11 19 20 16 5 21 11 9 8	
	{ Male... 97 4 8 9 6 6 5 6 12 21 6 5 9 88 2 2 5 8 7 6 8 14 8 6 8	
	{ Female... 118 5 7 5 9 12 10 9 7 18 13 9 13 1 56 1 1 6 11 13 10 2 7 8 8	
Branch.....	{ Total... 181 11 9 26 12 10 8 17 16 24 18 11 17 67 6 7 6 17 13 11 14 20 14 2 2	
	{ Male... 82 6 4 11 7 5 8 5 9 10 9 8 10 31 4 1 4 4 2 7 8 12 7 2 2	
	{ Female... 99 5 5 17 5 5 5 12 7 14 9 8 7 36 2 6 4 13 11 4 6 8 7 2 2	
Calhoun.....	{ Total... 271 9 16 22 26 21 20 20 28 18 21 29 1 100 7 4 6 38 21 24 22 25 16 10 8	
	{ Male... 138 5 7 11 12 10 14 10 17 18 11 10 13 53 6 2 3 18 8 18 10 11 9 4 1	
	{ Female... 131 4 9 10 14 10 15 7 13 15 6 11 16 1 40 1 2 8 20 13 11 12 14 7 6 2	
	{ Unk'n... 7 1 1 1 1 1 1 1 1 1 1 1 1 7 1 1 1 1 1 1 1 1 1 1	
Cass.....	{ Total... 200 13 9 20 15 15 13 10 33 28 19 10 14 1 94 8 6 10 15 11 16 7 17 10 5 1	
	{ Male... 102 3 4 9 7 10 7 6 21 16 9 4 6 54 6 8 2 7 2 4 4 9 6 4 1	
	{ Female... 98 10 5 11 8 5 6 4 12 12 10 6 8 1 40 2 8 8 8 9 12 3 8 4 1	
Charlevoix.....	{ Total... 10 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 2 8 1 1 1 1 1 1	
	{ Male... 8 1	
	{ Female... 7 1	

Emmet.	Total...	40	6	2	4	...	2	3	6	1	...	9	2	6	...	27	...	1	1	8	...	2	1	1	8	1	...
	Male...	18	2	1	2	...	1	...	4	...	...	4	2	2	...	10	...	1	...	1	...	2	1	1	1	1	...
	Female.	22	4	1	2	...	1	2	2	1	...	5	...	4	...	17	...	...	...	1	2	...	...	...	2	...	...
Genesee.	Total...	228	11	18	29	21	15	19	12	21	25	17	21	24	...	76	12	8	12	21	22	6	18	16	21	12	4
	Male...	117	7	9	18	10	8	9	5	10	14	7	9	10	...	42	7	4	6	10	9	8	10	8	9	8	1
	Female.	108	4	4	11	11	6	10	7	11	11	9	12	12	...	81	5	4	6	11	18	8	8	8	12	4	8
	Unk'n.	8	...	...	...	...	...	...	...	...	...	1	...	2	...	8	...	...	...	...	...	...	...	...	...	...	...
Gd. Traverse.	Total...	42	...	2	7	4	5	2	8	8	8	5	2	6	...	18	2	1	1	4	8	8	1	4	8	1	1
	Male...	22	...	1	5	3	1	2	1	1	1	1	1	5	...	9	2	...	1	...	2	1	1	8	8	...	...
	Female.	20	...	1	2	1	4	...	2	2	2	4	1	1	...	9	...	1	...	4	1	2	...	1	...	1	1
Gratiot.	Total...	81	7	11	10	6	5	8	4	6	7	6	11	5	...	31	1	4	10	5	6	8	7	7	6	...	1
	Male...	42	4	4	7	5	2	...	2	2	5	4	4	8	...	18	1	2	6	2	2	...	6	8	2	...	...
	Female.	35	8	7	8	1	8	8	1	2	2	1	7	2	...	10	...	2	4	8	4	8	1	4	4	...	...
	Unk'n.	4	...	...	...	...	...	...	1	2	...	1	...	...	...	8	...	...	...	...	...	...	...	...	...	...	1
Hillsdale.	Total...	222	4	11	26	19	20	23	19	17	29	25	14	15	...	78	9	8	12	25	18	18	11	18	18	11	6
	Male...	123	2	8	14	12	14	11	13	8	11	14	9	7	...	51	8	8	6	10	5	7	6	11	9	9	8
	Female.	99	2	3	12	7	6	12	6	9	18	11	5	8	...	27	6	5	6	15	8	6	5	7	9	2	8

(a) No returns.

THIRD REGISTRATION REPORT.

TABLE V--CONTINUED.

[illegible]

DEATHS.

[illegible]

(a) No returns.

DEATHS.

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Mackinac (a).																								

(a) No returns.

Montcalm	Total	85	9	8	6	8	6	8	5	11	14	8	7	7	27	8	1	4	15	4	8	4	10	10	8	1
	Male	48	2	5	8	6	8	8	4	4	6	4	4	4	17	1	---	2	8	1	1	8	5	6	8	1
	Female	37	---	3	8	2	8	---	1	7	8	4	3	3	10	2	1	2	7	8	2	1	5	4	---	---
Muskegon	Total	138	4	9	10	6	8	13	14	19	27	12	7	9	71	8	4	5	12	5	6	9	8	8	1	6
	Male	73	3	7	4	5	3	8	9	8	11	7	4	4	42	8	3	4	2	4	3	3	5	---	---	4
	Female	64	1	2	6	1	5	5	4	11	16	5	3	5	28	5	1	1	10	1	3	6	8	8	1	2
	Unk'n.	1	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Newaygo	Total	57	5	7	7	4	4	8	1	5	9	4	5	3	37	2	1	2	2	1	1	8	2	2	2	2
	Male	35	4	5	4	2	4	2	1	1	4	8	2	3	25	1	---	---	1	---	1	2	1	2	1	1
	Female	22	1	2	3	2	---	1	---	4	5	1	3	---	12	1	1	2	1	1	---	1	1	---	1	1
Oakland	Total	241	11	13	25	19	15	21	28	25	17	33	16	21	68	13	11	7	31	7	15	17	33	15	19	5
	Male	136	8	8	10	9	10	14	16	17	7	16	8	12	38	11	9	8	13	5	9	8	18	9	11	8
	Female	105	3	5	15	10	5	7	7	8	10	17	8	9	30	2	2	4	18	2	7	9	15	6	8	2
Oceana	Total	70	3	4	12	2	2	6	2	10	13	5	4	7	42	3	1	5	3	8	1	8	5	1	1	2
	Male	43	3	3	8	1	1	5	1	3	10	2	3	3	28	1	---	2	1	2	1	2	4	1	1	---
	Female	27	---	1	4	1	1	1	1	7	3	3	1	4	14	2	1	3	2	1	---	1	1	---	---	9
Ontonagon	Total	33	1	2	6	4	4	1	2	3	1	4	5	---	17	2	2	---	1	3	2	2	2	---	1	1
	Male	20	---	---	3	3	4	---	1	3	1	2	3	---	11	1	1	---	---	3	---	2	1	---	1	---
	Female	13	1	2	3	1	1	1	1	---	---	2	2	---	6	1	1	1	1	---	2	---	1	---	1	1

THIRD REGISTRATION REPORT.

TABLE V—CONTINUED.

COUNTIES.	SEX.	MONTHS.												AGES.													
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.	
Oceola.	Total...	10	---	---	1	1	8	---	1	---	2	1	1	---	---	6	---	1	1	---	---	---	---	---	---	---	---
	Male...	4	---	---	1	---	1	---	1	---	1	---	---	---	---	2	---	---	1	---	---	---	---	---	---	---	
	Female...	6	---	---	---	1	2	---	---	---	1	1	1	---	---	4	1	---	---	---	---	---	---	---	---	---	
Ottawa.	Total...	284	5	7	26	8	11	15	12	40	43	24	16	23	4	118	9	7	6	24	17	13	8	15	12	1	4
	Male...	181	4	4	14	8	9	11	6	23	22	11	7	13	4	64	6	---	2	11	10	8	8	9	9	1	3
	Female...	103	1	3	12	5	2	4	6	17	21	13	9	10	---	54	3	7	4	13	7	5	---	6	3	---	1
Saginaw.	Total...	444	26	42	29	32	23	24	34	51	63	52	23	35	---	249	29	12	18	43	22	21	15	9	10	8	18
	Male...	239	6	21	19	18	16	12	13	27	35	31	17	14	---	131	18	6	7	15	10	12	10	5	7	4	4
	Female...	210	18	21	10	14	7	12	21	24	31	21	11	20	---	115	11	6	6	28	12	9	5	4	3	4	7
	Unk'n...	5	2	---	---	---	---	---	---	---	2	---	---	1	---	8	---	---	---	---	---	---	---	---	---	---	2
Sanilac.	Total...	63	6	2	---	3	4	2	9	6	13	12	8	3	---	30	4	1	5	5	8	5	3	2	3	2	---
	Male...	34	4	2	---	---	2	---	6	6	8	5	4	2	---	16	3	---	2	3	3	3	1	1	1	1	---
	Female...	29	2	---	---	3	2	2	3	---	5	7	4	1	---	14	1	1	3	2	5	2	2	1	2	1	---

DEATHS.

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Shiawassee.....	Total.....	154	18	10	6	9	7	12	12	16	23	17	13	13	1	52	3	5	9	18	11	5	12	9	12	7	11
	Male.....	75	8	5	5	4	3	5	7	9	10	7	5	7	---	29	1	2	3	4	2	3	8	7	6	8	7
	Female.....	78	5	5	1	5	4	7	5	9	13	10	8	6	---	23	2	3	6	14	9	2	4	2	6	4	3
	Unk'n.....	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1
St. Clair.....	Total.....	299	23	18	25	20	25	13	18	43	39	24	20	23	3	139	17	9	17	34	23	20	21	7	7	3	3
	Male.....	171	13	11	16	12	14	9	10	29	16	16	10	13	2	83	8	5	8	12	12	14	17	4	4	1	3
	Female.....	127	10	7	9	8	11	4	8	19	23	8	10	10	---	55	9	4	9	22	10	6	4	3	3	2	---
	Unk'n.....	1	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---
St. Joseph.....	Total.....	200	10	21	18	25	8	13	11	17	29	21	6	20	1	70	5	3	6	21	15	6	20	27	14	9	4
	Male.....	97	4	11	6	11	4	5	9	10	13	11	4	8	1	38	---	2	3	9	5	1	8	18	7	5	1
	Female.....	103	6	10	12	14	4	8	2	7	16	10	2	12	---	32	5	1	3	12	10	5	12	9	7	4	3
	Unk'n.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tuscola.....	Total.....	99	3	5	7	9	10	7	13	17	11	8	5	4	---	34	4	4	6	12	8	3	5	4	7	2	5
	Male.....	49	2	4	4	3	5	5	6	7	5	3	3	2	---	19	1	1	3	5	3	3	1	4	2	4	---
	Female.....	50	1	1	3	6	5	2	7	10	6	5	2	2	---	15	3	3	3	7	5	5	2	3	3	---	1
	Unk'n.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Van Buren.....	Total.....	137	6	14	9	11	17	9	10	28	27	26	12	16	2	69	13	4	8	16	13	12	13	13	14	8	4
	Male.....	109	5	8	6	4	10	6	7	13	15	15	9	10	1	41	5	3	5	7	7	5	7	8	11	7	3
	Female.....	73	1	6	3	7	7	3	3	15	12	11	3	6	1	28	8	1	3	9	6	7	6	5	3	1	1
	Unk'n.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE V—CONTINUED.

COUNTIES.	Sex.	MONTHS.												AGES.													
		1899.																									
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.	
Washtenaw	Total...	249	6	15	14	22	20	18	14	30	80	84	22	20	4	67	11	8	22	27	19	28	15	11	27	11	8
	Male...	129	4	6	4	12	13	11	6	19	17	15	11	9	2	37	5	2	8	14	12	8	8	12	16	6	1
	Female...	120	2	9	10	10	7	7	8	11	18	19	11	11	2	30	6	1	14	18	7	15	7	9	11	5	2
Wayne	Total...	1811	58	78	100	91	78	88	120	189	188	88	112	187	19	699	44	81	40	90	84	65	65	64	52	28	49
	Male...	720	28	48	51	48	46	51	65	92	95	45	68	88	10	372	28	18	17	36	50	45	40	41	85	15	28
	Female...	587	80	80	49	48	32	37	55	97	68	48	49	54	5	325	16	18	28	54	84	20	25	28	17	18	24
	Unk'n...	4	—	—	—	—	—	—	—	—	—	—	—	—	4	2	—	—	—	—	—	—	—	—	—	—	2
Wexford	Total...	5	—	—	—	2	—	—	—	—	—	2	—	1	8	—	—	—	2	—	—	—	—	—	—	—	—
	Male...	8	—	—	—	1	—	—	—	—	2	—	—	—	8	—	—	—	—	—	—	—	—	—	—	—	—
	Female...	2	—	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	2	—	—	—	—	—	—	—	—

TABLE VI.

Nativity, by Sex and Counties, of those who Died during the year 1869.

COUNTIES.	AMERICAN.				FOREIGN.				UNKNOWN.				TOTALS.			
	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Grand Total.
State.....	3850	3629	88	7517	744	581	..	1275	202	146	5	353	4796	4806	43	9145
Alcona.....	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1
Allegan.....	81	82	2	165	17	15	..	32	7	1	..	8	105	98	2	205
Alpena.....	12	15	..	27	2	1	..	3	..	..	..	..	14	16	..	30
Antrim.....	5	4	..	9	1	..	..	1	..	..	..	..	6	4	..	10
Barry.....	74	65	..	139	7	5	..	12	1	1	..	2	82	71	..	153
Bay.....	51	31	..	82	19	6	..	25	6	3	..	9	76	40	..	116
Benzie.....	6	12	..	18	1	..	..	1	1	..	..	1	7	18	..	25
Berrien.....	84	107	..	191	10	6	..	16	8	5	..	8	97	118	..	215
Branch.....	78	96	..	174	4	3	..	7	..	..	..	..	82	99	..	181
Calhoun.....	118	109	7	229	12	11	..	23	8	11	..	19	133	121	7	271
Cass.....	95	89	..	184	5	3	..	13	2	1	..	3	102	98	..	200
Charlevoix.....	1	4	..	5	2	3	..	5	..	..	..	..	3	7	..	10
Cheboygan.....	2	5	..	7	1	..	..	1	1	..	..	1	4	5	..	9
Chippewa (a).....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clinton.....	72	83	..	155	9	5	..	14	2	..	..	2	88	88	..	171
Delta (a).....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eaton.....	88	92	1	181	4	..	..	4	6	2	..	8	98	94	1	193
Emmet.....	16	22	..	38	1	..	..	1	1	..	..	1	18	22	..	40
Genesee.....	101	90	2	193	7	14	..	21	9	4	1	14	117	108	3	228
Grand Traverse.....	20	16	..	36	1	3	..	4	1	1	..	2	22	20	..	42
Gratiot.....	38	33	4	75	3	2	..	5	1	..	..	1	42	35	4	81
Hillsdale.....	110	92	..	202	4	3	..	7	9	4	..	13	123	99	..	222
Houghton.....	54	49	..	103	14	6	..	20	..	..	..	..	68	55	..	123
Huron.....	11	18	..	29	13	15	..	27	..	..	..	..	28	28	..	51
Ingham.....	100	111	..	211	7	9	..	16	2	2	..	4	109	123	..	231

(a) Not returned.

TABLE VI—CONTINUED.

COUNTIES.	AMERICAN.				FOREIGN.				UNKNOWN.				TOTALS.			
	Males.	Females.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Grand Total.
Ionia.....	100	97	1	198	14	4		18	9	10		19	123	111	1	235
Iosco.....	10	6		16	6	2		8		1		1	16	9		25
Isabella.....	15	11		26	1	1		2					16	12		28
Jackson.....	98	99		197	10	5		15	2	8		5	110	107		217
Kalamazoo.....	125	94	5	224	18	17		35	9	8	1	18	152	119	6	277
Kent.....	132	136	2	270	35	21		56	7	8		10	174	160	2	336
Keweenaw (a).....																
Lapeer.....	44	64	1	109	6	7		13	2	1		3	52	72	1	125
Leelanaw.....	27	14		41	3			3					30	14		44
Lenawee.....	138	107		245	11	10		21	4	4		8	153	121		274
Livingston.....	65	52		117	5	6		11	8			8	73	58		131
Mackinac (a).....																
Macomb.....	81	112		193	24	16		40	1			1	106	128		234
Manistee.....	20	18		38	5	4		9		1		1	25	23		48
Manitou (a).....																
Marquette.....	35	50		85	21	25		46					56	75		131
Mason.....	20	10		30	1	2		3	1			1	22	12		34
Mecosta.....	16	15		31	6	3		9		2		2	22	20		42
Menominee.....	3	5	1	9		1		1					3	6	1	10
Midland.....	15	7		22	2			2		1		1	17	8		25
Monroe.....	104	101	8	208	16	13		29	5			5	125	114	8	242
Montcalm.....	44	31		75	4	5		9		1		1	48	37		85
Muskegon.....	59	52	1	112	12	9		21	2	8		5	78	64	1	138
Newaygo.....	32	22		54	3			3					35	22		57
Oakland.....	105	91		196	27	12		39	4	2		6	136	105		241
Oceana.....	40	25		65	3	1		4		1		1	48	27		70
Ontonagon.....	16	9		25	4	4		8					20	18		38
Osceola.....	8	5		13	1			1		1		1	4	6		10
Ottawa.....	94	78		172	34	24		58	3	1		4	131	103		234
Saginaw.....	163	163	4	330	56	42		98	5	5	1	11	229	210	5	444
Sanilac.....	23	19		42	11	15		26					34	34		68
Shiawassee.....	57	70	1	128	11	7		18	7	1		8	75	78	1	154

(a) Not returned.

TABLE VI—CONTINUED.

COUNTIES.	AMERICAN.				FOREIGN.				UNKNOWN.				TOTALS.			
	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Grand Total.
St. Clair.....	118	96	1	215	49	81	..	80	4	.....	..	4	171	127	1	299
St. Joseph.....	80	92	..	172	12	4	..	16	5	7	..	12	97	108	..	200
Tuscola.....	42	46	..	88	6	4	..	10	1	.....	..	1	49	50	..	99
Van Buren.....	93	67	..	160	7	8	..	10	9	8	..	17	109	78	..	187
Washtenaw.....	98	109	..	207	25	10	..	35	6	1	..	7	129	120	..	249
Wayne.....	514	435	2	951	152	107	..	259	54	45	2	101	720	587	4	1311
Wexford.....	8	1	..	4	.....	1	..	1	.....	.....	.....	.....	8	2	..	5

This table is the same as the one in last Report, except that, instead of the total American, Foreign, and Unknown in each county, the number of each sex and total of each nativity for the county is given. It still lacks percentage to native and foreign population. This can probably be given next year.

Table VII, of deaths of persons belonging to races other than white, will also be more valuable when the proportion of Negro and Indian population is known, and the percentage of deaths to the same is given.

TABLE VII.

*Deaths of Persons belonging to Races other than White.
Number and Sex in each County.*

COUNTIES.	AFRICAN.			INDIAN.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State.....	40	44	84	44	89	83
Alcona.....
Allegan.....	..	1	1	..	..	..
Alpena.....	1	..	1
Antrim.....
Barry.....
Bay.....	2	3	5
Benzie.....	..	1	1	..	..	..
Berrien.....	1	1	2	..	..	..
Branch.....
Calhoun.....	1	2	3	1	..	1
Cass.....	10	15	25	..	..	..
Charlevoix.....
Cheboygan.....	1	1	2
* Chippewa.....
Clinton.....	..	1	1	..	..	..
* Delta.....
Eaton.....
Emmet.....	13	21	39
Genesee.....
Grand Traverse.....
Gratiot.....
Hillsdale.....
Houghton.....	5	7	12
Huron.....

* Not returned.

TABLE VII—CONTINUED.

COUNTIES.	AFRICAN.			INDIAN.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Ingham.....	..	3	3	..	..	..
Ionia.....	..	..	..	..	..	..
Iosco.....	..	..	..	..	..	..
Isabella.....	..	..	..	..	..	..
Jackson.....	4	..	4	..	..	..
Kalamazoo.....	3	3	6	..	..	..
Kent.....	1	2	3	..	..	..
* Keweenaw.....	..	..	..	..	..	..
Lapeer.....	..	..	..	..	..	..
Leelanaw.....	..	1	1	2	..	2
Lenawee.....	..	..	..	..	..	..
Livingston.....	..	..	..	..	..	..
* Mackinac.....	..	..	..	..	..	..
Macomb.....	..	..	..	..	..	..
Manistee.....	..	..	..	..	..	..
* Maniton.....	..	..	..	..	..	..
Marquette.....	..	..	..	..	..	..
Mason.....	..	..	..	5	..	5
Mecosta.....	..	..	..	..	..	..
Menominee.....	..	..	..	..	..	..
Midland.....	..	..	..	..	..	..
Monroe.....	1	1	2	..	..	..
Montcalm.....	..	..	..	..	..	..
Muskegon.....	1	..	1	..	..	..
Newaygo.....	..	..	..	1	..	1
Oakland.....	2	..	2	..	..	..
Oceana.....	..	..	..	4	7	11
Ontonagon.....	..	..	..	1	..	1
Osceola.....	..	..	..	..	..	..

* Not returned.

TABLE VII—CONTINUED.

COUNTIES	AFRICAN.			INDIAN.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Ottawa.....	2	2	4	..	..	..
Saginaw.....	2	2	4	..	..	..
Sanilac.....	..	..	..	..	..	..
Shiawassee.....	..	1	1	..	..	..
St. Clair.....	..	..	..	..	..	..
St. Joseph.....	..	..	..	..	..	..
Tuscola.....	..	..	..	..	..	..
Van Buren.....	1	4	5	3	..	3
Washtenaw.....	4	3	7	..	..	..
Wayne.....	7	1	8	..	..	..
Wexford.....	..	..	..	..	..	..

TABLE VIII.
Deaths of those Aged One Hundred Years and over, 1869.

NAME.	SEX.	COLOR.	Married, Single, or Widow'd.	BIRTHPLACE.	AGE.			OCCUPATION.	PLACE OF DEATH.		DATE OF DEATH.		CAUSE OF DEATH.
					Years	Mo's.	Days.		Town.	County.	Month.	Day.	
Annie N. Gregory.....	Fe.	White.	Widow.	New York.....	110	4	---	Not stated.....	Pulaski.....	Jackson.....	April.....	20	Old Age.
Jedediah Osburn.....	M.	White.	Widower.	Unknown.....	101	6	16	Not stated.....	Wyoming Kent.....	Kent.....	August.....	25	Bee Sting
Agnes Scott.....	Fe.	Colored	Widow.	North Carolina.....	110	4	---	House-keeper.....	Porter.....	Cass.....	March.....	17	Old Age.
William Wansby.....	M.	Colored	Married	Ohio.....	112	---	---	Not stated.....	Detroit.....	Wayne.....	June.....	16	Old Age.

It is interesting to know all the facts possible of these ancient mariners on the sea of life, with a view of learning how and why they have weathered the storms for so long a period.

The age of parents and children would be valuable information, as showing the influence of parental longevity.

The age attained by three of the above is remarkable. It is believed that statistics of States or cities, with an equal population, seldom show as many at such an advanced age, or include even one who has reached the age of one hundred and ten years.



CAUSES OF DEATH.

Prominent among the conditions of life and the causes of death, are the influences of climate and season of the year. An effort was made to secure a meteorological record for the year 1869 from each sanitary district of the State, but the following, from two places, were all that were obtained. The requests were not entirely without good results, inasmuch as some observers have promised to furnish a record in future. Some additional data are required for purposes of study in this connection, and, in order to supply all that is wanted, observers must be found in several parts of the State who will give special attention to such matters as bear directly, with greatest force, upon the health and lives of the people.

Tables IX and X were compiled in this office, from observations made at the Agricultural College, near Lansing, by Prof. R. C. Kedzie, published in the Report of the State Board of Agriculture for 1869.

Table X contains results of observations made at Monroe, by Miss F. E. Whelpley.

TABLE IX.

Showing the Mean Altitude and Range of the Barometer, the Prevailing Winds, the mean relative Humidity, Percentage of Cloudiness of the sky, the number of Days of Rain or Snow, and the Quantity of Rain or melted Snow for each month of the year 1869, at Lansing, Mich.

MONTHS.	Barometer—Mean reduced to 32° Fahrenheit.	Range of Barometer.	DAYS OF PREVAILING WINDS.								Relative Humidity or percentage of Saturation—Average.	Mean Cloudiness of the Sky.	Number of Days of Rain and Snow.	Rain and Melted Snow in inches.	
			North.	Northeast.		Southeast.	South.	Southwest.		West.					Northwest.
				East.	West.			East.	West.						
January.....	28.880	1.428	1	2	8	..	..	18	11	1	96	66	7	.87
February.....	28.889	1.488	..	7	1	2	8	8	6	1	95	71	10	2.950	
March.....	28.984	.717	..	5	1	4	1	12	5	3	82	67	11	1.658	
April.....	28.827	1.148	1	1	4	8	..	9	9	8	67	61	18	8.428	
May.....	28.749	.787	..	5	4	8	1	12	5	1	70	70	14	2.054	
June.....	28.856	.929	..	1	..	6	..	14	8	1	80	65	11	4.896	
July.....	28.844	.624	1	1	..	8	1	17	8	..	79	58	10	5.766	
August.....	28.968	.575	1	7	8	2	..	10	5	2	75	48	7	4.658	
September.....	29.020	.751	8	8	2	1	2	16	2	..	83	41	6	1.480	
October.....	28.920	.642	1	..	..	..	..	14	14	1	86	68	11	1.728
November.....	28.868	1.402	..	1	5	8	..	4	18	3	86	77	12	1.925	
December.....	28.999	1.218	..	2	2	2	1	14	0	1	82	78	11	2.108	
Whole Year.....	28.887	1.660	8	85	25	29	9	143	95	15	81	68	123	83.158	

TABLE X.

Showing the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, and the Greatest Change in Twenty-four Hours, for each month of the year 1869, at Lansing, Michigan.

MONTHS.	THERMOMETER.				Mean Daily Range.	GREATEST CHANGE IN 24 HOURS.	
	Mean.	Highest	Lowest.	Range.		Degrees of rise or fall of Ther- mometer.	Day of Month.
January.....	29.38°	50°	4°	46°	12.4°	R. 33°	16th.
February.....	26.66°	60°	-4°	64°	17.1°	R. 43°	5th.
March.....	27.60°	62°	-2°	64°	17.4°	R. 34°	18th.
April.....	45.70°	76°	20°	56°	16.0°	R. 29°	22d.
May.....	56.02°	88°	41°	47°	14.0°	F. 25°	9th.
June.....	64.45°	88°	44°	44°	15.3°	F. 26°	16th.
July.....	70.35°	89°	54°	35°	15.2°	R. 27°	23d.
August.....	70.56°	92°	46°	46°	18.0°	F. 30°	21st.
September.....	63.45°	89°	38°	51°	19.3°	R. 35°	1st.
October.....	40.80°	74°	18°	56°	12.4°	R. 27°	6th.
November.....	32.05°	71°	4°	67°	11.3°	R. 40°	24th.
December.....	28.16°	45°	0°	45°	12.1°	R. 37°	26th.
Whole Year.....	46.27°	92°	-4°	96°	15.0°	R. 43°	Feb. 5th.

TABLE XI.

Showing the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, and the Greatest Change in Twenty-four Hours; and also the Prevailing Winds, Relative Humidity, Rain and Melted Snow, in inches, for each month of the year 1869, at Monroe, Michigan:

MONTHS.	Thermometer.				M'n Daily Range.	Greatest Change in 24 hours.		Prevailing Winds.	Relative Humidity (unity as max. m.)	Rain and Melted Snow, in inches.
	Mean.	Highest.	Lowest.	Range.		Degr's of rise or fall of thermom- eter.	Day of Month.			
January.....	33.30°	54°	12°	42°	11.09°	23° R.	10th.	N. and W.	.2	.50
February.....	30.99°	69°	5°	64°	11.57°	27° F.	13th.	S. and W.	.55	3.25
March.....	29.43°	60°	0	60°	11.06°	23° R.	23d.	S. and W.	.325	2.25
April.....	46.59°	74°	28°	46°	10.36°	18° F.	25th.	W.	.35	2.60
May.....	57.45°	86°	43°	43°	9.26°	23° F.	26th.	N. and W.	.625	5.61
June.....	65.95°	88°	46°	42°	11.27°	20° R.	7th.	S. and W.	.6	5.45
July.....	73.07°	90°	60°	30°	9.87°	22° F.	22d.	N. and W.	.65	5.90
August.....	70.05°	90°	42°	48°	12.28°	24° F.	25th.	N. and W.	.125	1.45
September...	58.55°	86°	32°	54°	13.67°	26° R. & F.	4th.	S. and W.	.225	2.67
October.....	41.93°	66°	21°	45°	11.90°	24° F.	9th.	S. and W.	.05	.31
November...	38.17°	63°	10°	53°	8.30°	32° R.	3d.	S.	.125	1.16
December....	31.05°	43°	16°	32°	9.00°	18°	22d.	E. and S.	.125	1.32
Whole Year..	48.04°	90°	0	90°	10.84°	32° R.	Nov. 3d.	.....	.329	32.47

There seems to be nothing very remarkable about the meteorological records in this State during the year 1869, and no obvious connection between the facts set forth in these tables and the death-rate. There can be no question, however, but that, if sufficient time could be given to the study of these conditions in connection with the death-rate, the result would be the demonstration of important relations between them.

Man's "struggle for existence" is largely with the elements. As Mr. J. Disturnell has pointed out, the progress of the human race has been almost completely controlled by climate. Only within certain limits has man been able to live and progress, the obstacles outside those limits heretofore proving too great. The most favorable climate has been shown to be where the mean temperature for the year is about 48° to 52° Fahrenheit; and along this isothermal line are a great majority of the most prosperous cities and countries. Human life and progress is there subject to the most favorable circumstances. The advance of knowledge, like this we are here seeking, will enable man to overcome many unfavorable conditions, to make progress in climates in which it has been difficult, and will tend greatly to increase the chances of life in the most favorable locations.

It will be seen from the first column of Table IX, giving mean height of barometer for each month, that the barometer was highest in September, corresponding with the greatest mortality; and was, in fact, highest in the five months in which the greatest number of deaths occurred, although not descending in precisely the same order as the mortality by months. The comparison can be made by referring to Table II in connection with Table IX.

Table IX also shows that the total rain-fall for 1869 was 33.153 inches,—about two and one-half inches more than the average at Lansing for a number of years past. The average percentage of saturation, or humidity of the atmosphere, was 81. Average percentage of cloudiness of the sky, 63. Number of days on which it either rained or snowed, 123. The air appears to have been more moist at Lansing than at Monroe, and the rain-fall greater. This last is not in accordance with the rule that the rain-fall becomes less with the increase of the latitude, as Lansing is about one degree further north than Monroe. The quantity recorded at Monroe might perhaps have been slightly increased if the figures had been carried

out another point. In order to compare the humidity of the atmosphere in Table XI with the same column in Table IX, it must be multiplied by 100, as in the one case unity is taken as maximum, and in the other is given the percentage of saturation.

At Monroe the monthly mean temperature was highest in the months of July, August, June, September, May, etc., in above order. The monthly mean temperature at Lansing was highest in August, next highest in July, and third in September. It will be seen by Table II that the order of greatest mortality was September, August, October, etc. In July the mortality was below the average, and at the same time the temperature was higher than in September or October, and at Monroe was higher than in any other month. It is readily seen that the greatest mortality was not coincident with the highest temperature, but occurred two or three months after that period. This grouping of facts shows, perhaps, the accumulated effects of extreme heat, and, possibly, to some extent, the effect of the withdrawal of this powerful natural stimulant.

There is time here merely to glance at these matters, and not sufficient to attempt to study or show how much is due to each of these several causes; and besides, such problems can only be fully elucidated by thorough analysis of the data supplied by numerous statistical observations.

There is, however, another important relation between conditions of temperature and the death-rate, and that is the correspondence between the time of extreme daily range of the thermometer and months having greatest mortality. (The mean daily range for the month is found by subtracting the lowest from the highest temperature reached each day, adding together the remainders, and dividing the total by the number of days in the month.) At Lansing the mean daily range of thermometer was greatest in September, and next greatest in August. At Monroe the order by months was September, August, October, etc., which, so far, was also the order of

greatest total mortality in the State. This correspondence cannot, however, be traced further. The indication would seem to be that, under certain conditions, extreme daily range of temperature is not favorable to life. This question seems also to be a very proper one for further examination. If this or either of the two last preceding propositions prove true, the excessive mortality at this season of the year may doubtless be greatly lessened, for an important step is made towards overcoming unfavorable influences when we learn their essential nature. Indeed, it seems plain that whenever the effects of such causes shall be fully appreciated, they may be reduced to a minimum by proper clothing, frequent change of clothing, corresponding with changes in temperature, and by means of properly regulated artificial heat. No effect has been noticed that could be traced to single great changes of temperature. At least two of the greatest changes of this kind are recorded in months in which less than the average number of deaths occurred. The effect of such changes can be better learned by compiling the deaths by weeks instead of by months, as has been done. This will involve still further time and labor, but promises valuable knowledge in return.

TABLE XII.

The Number of Deaths, from several Specified Causes, of each Sex, Total Number in each Month, and at Different Periods of Life, which were Registered During the Year ending December 31st, 1869.

	Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
Totals	118	226	105	595	89	236	147	252	487	158
SEX.										
Males.....	47	122	52	168	49	186	84	180	228	77
Females.....	66	104	51	132	40	99	68	122	209	80
Unknown.....			2			1				1
MONTHS.										
January.....	8	8	9	4	4	4	14	18	17	8
February.....	8	19	10	2	4	2	25	14	18	18
March.....	8	27	10	6	9	2	29	84	81	11
April.....	8	19	8	8	6	5	16	25	18	11
May.....	10	22	5	6	8	6	17	14	27	16
June.....	18	11	5	12	4	6	14	19	16	18
July.....	9	11	8	35	5	12	7	14	21	18
August.....	4	26	10	92	5	68	4	14	51	15
September.....	12	38	11	80	14	96	4	22	76	29
October.....	16	20	9	27	12	81	6	24	79	12
November.....	15	10	9	8	8	8	4	15	45	11
December.....	12	19	16	15	10	4	7	39	38	10
Unknown.....		1		5		1				1
Av. Month.....	9.41	18.75	8.75	24.17	7.41	19.58	12.25	21.00	36.41	18.08
AGES.										
Under 5.....	6	146	94	261	47	188	104	168	50	149
5 to 10.....		28	8	4	24	7	28	62	28	7
10 to 15.....	2	8	8	2	7	8	2	10	42	
15 to 20.....	1	11		1	6	2	6	5	59	
20 to 30.....	5	8		8	2	8	7	4	96	1
30 to 40.....	8	8		6	2	8	2	2	48	1
40 to 50.....	11	6		4		8		1	29	
50 to 60.....	27	6		5	1	6	1		32	
60 to 70.....	24	5		5		9	1	1	42	
70 to 80.....	16			8		6			17	
80 and over.....	9					8			1	
Unknown.....	4	5		1		8	1	4	8	

TABLE XIII.

The Percentage of Deaths from several Specified Causes, of each Sex, of Deaths in each Month, and at Different Periods of Life, which were Registered during the year ending December 31st, 1869.

		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
Per Ct. all Causes		1.23	2.46	1.14	3.22	.97	2.58	1.60	2.75	4.77	1.72
SEX.	Males.....	41.59	53.98	49.52	55.22	55.05	57.62	57.14	51.58	52.17	48.73
	Females.....	58.40	46.01	48.57	44.77	44.94	41.94	42.85	48.41	47.82	50.63
	Unknown.....	.....	.....	1.90	.....	.....	.44	.....	.....	.....	.63
MONTHS.	January.....	2.65	1.82	8.56	1.85	4.49	1.69	9.52	7.14	8.95	1.89
	February.....	2.65	8.40	9.52	.67	4.49	.84	17.00	5.55	4.11	8.23
	March.....	7.07	11.94	9.52	2.03	10.11	.84	19.72	18.49	7.09	6.96
	April.....	7.07	8.40	7.61	1.01	6.73	2.11	10.88	9.92	4.11	6.96
	May.....	8.84	9.76	4.76	2.03	8.98	2.54	11.56	5.55	6.18	10.12
	June.....	11.50	4.86	4.76	4.06	4.49	2.54	9.52	7.53	8.73	8.23
	July.....	7.96	4.86	2.85	11.86	5.61	5.08	4.76	5.55	4.80	8.23
	August.....	8.53	11.50	9.52	31.13	5.01	26.09	2.72	5.55	11.67	9.41
	September.....	10.61	16.82	10.47	27.11	15.78	40.67	2.72	8.73	17.39	18.85
	October.....	14.15	8.84	8.56	9.15	13.47	13.13	4.08	9.52	13.07	7.59
	November.....	13.27	4.42	8.56	2.71	8.98	1.27	2.72	5.95	10.30	6.96
	December.....	10.61	8.40	15.23	5.08	11.23	1.69	4.76	15.47	8.69	6.92
	Unknown.....	.....	.44	.....	1.69	.....	.42	.....	.....	.....	.63
	Av. Month.....	8.83	8.29	8.83	8.19	8.83	8.29	8.83	8.83	8.83	8.23
AGES.	Under 5.....	5.80	64.60	89.50	88.47	52.80	79.66	70.74	64.68	11.44	94.80
	5 to 10.....	.....	10.17	7.61	1.85	26.95	2.96	15.64	24.60	5.26	4.48
	10 to 15.....	1.76	3.53	2.85	.67	7.86	1.27	1.86	3.96	9.61	.....
	15 to 20.....	.88	4.86	.....	.83	6.73	.84	4.08	1.98	13.76	.....
	20 to 30.....	4.42	3.53	.....	1.01	2.24	1.27	4.76	1.58	21.96	.63
	30 to 40.....	7.07	3.53	.....	2.03	2.24	1.27	1.86	.79	9.53	.63
	40 to 50.....	9.73	2.65	.....	1.35	.....	1.27	.....	.89	6.68	.....
	50 to 60.....	23.89	2.65	.....	1.69	1.12	2.54	.68	.....	7.33	.....
	60 to 70.....	21.23	4.41	.....	1.69	.....	3.81	.68	.89	9.61	.....
	70 to 80.....	14.15	.....	.....	1.01	.....	2.54	.....	.....	3.95	.....
	80 and over.....	7.96	.....	.....	.....	.....	1.27	.....	.....	.66	.....
	Unknown.....	3.53	4.41	.....	.33	.....	1.27	.68	1.58	.22	.....

Tables XII and XIII are similar to Tables I and II in the first report in this State, and have been prepared for the purpose of showing the influence of conditions connected with sex, season, and age, upon the rate of mortality from a few specified causes.

Consumption and pneumonia were not included, because they were deemed of sufficient importance to be worthy of special study in tables by themselves.

Cancer.—Of the one hundred and thirteen deaths from cancer, sixty-six, or 58.40 per cent were females. It should be remembered in this connection, that from all causes, there were 5.39 per cent more deaths of males than females, as shown by Table III. The average percentage of deaths of females from all causes was 47.30. If we subtract this average from 58.40, we find that cancer caused the death of 11.10 per cent more females than the average proportion from all causes.

Taking up the influence of season upon the death-rate from cancer, we find that during the first four months of the year there were twenty-two deaths; during the second four months, thirty-six, and in the last four there were fifty-five. The greatest number of deaths occurred in October, and the next greatest number in November; the thirty-one deaths in these two months showing a marked contrast with the six deaths in January and February.

The influence of age seems also to be important, and was even more strongly marked. Of the one hundred and nine deaths in which the age was reported, seventy-six were of persons over fifty years of age, leaving only thirty-three under that age.

We find, then, that 16.81 per cent more females than males died from cancer in 1869; that the greatest proportion of these deaths occurred in the autumn and first winter month; and that more than three-fourths of them were of persons over fifty years of age.

If these several facts are found thus grouped together through a sufficient number of years to establish this collection of conditions as the general rule, it is believed that the evidence will be sufficient, taken in connection with what has already been worked out by the medical profession, to demonstrate the essential nature of cancer, and tend to place this dreaded malady within the class of preventable diseases.

Cephalitis.—By referring to Table IV, it will be seen that, from all causes, the percentage of deaths of males to total was 52.69. Comparing this with Table XIII, we find that the proportion of deaths of males from cephalitis was 1.39 per cent greater than the average. The difference between the percentages of the sexes is 7.97, while the average difference from all causes was 5.39.

The greatest number of deaths from this disease in any one month was thirty-eight, in September. The least numbers occurred in January, June, July, and November, corresponding, so far, with the mortality from all causes. The comparison holds so far that the disease would seem to result from a general, or at least an average cause, especially as from this disease alone there were not a sufficient number of deaths to control the general result.

The conditions of age are quite important, for of the 226 deaths, 146 were of children under five years of age. There were no deaths reported from this disease of persons aged over seventy.

Croup.—The sexes suffered from this disease about equally. The following "Exhibit A" gives the number and percentage of deaths in each month in the order of mortality, and is believed to be of sufficient importance to well repay a careful study. It is, perhaps, proper to acknowledge that the preconceived opinion of the compiler was in accordance with the evidence here presented,—that, in fact, it appears as the result of search on his part. Attention is also called to the fact that the coincidences of conditions which are here so marked, can-

not be found if the meteorological tables compiled from observations made at Lansing be used instead of the one from Monroe, which has been used in this instance. Nevertheless the subject appears to be well worthy of study hereafter, and the plan, or ground-work, is accordingly here laid out.

*EXHIBIT A, of the order of Greatest Mortality from Croup.
by months, with some meteorological conditions connected
therewith.*

MONTHS, 1869.		No. of Deaths.	Per cent. of Deaths.	Mean daily range of Temperature.	Relative humidity of Atmosphere.	Rain-fall in inches.	Mean temperature, Fahrenheit.
More than average number of Deaths.	1. December	16	15.28	*9.00°	a.125	1.82	a81.05°
	2. September	11	10.47	a18.67°	.225	2.67	*58.55°
	3. August	10	9.52	a12.28°	a.125	1.45	*70.05°
	3. February	10	9.52	a11.57°	*.550	*3.25	a80.99°
	3. March	10	9.52	11.06°	*.325	2.25	a29.48°
	4. January	9	8.56	11.09°	.200	.50	38.80°
	4. October	9	8.56	11.90°	.050	.31	41.98°
	4. November	9	8.56	*8.60°	a.125	1.16	a38.17°
Less than average No. Deaths.	5. April	8	7.61	10.36°	a.350	*2.60	*46.59°
	6. May	5	4.76	9.26°	.625	5.61	57.45°
	6. June	5	4.76	*11.27°	a.600	5.45	a65.95°
	7. July	3	2.85	9.87°	.650	3.90	78.07°
Average		8.75	8.88	10.84°	.274	2.70	48.04

* Exceptions. a Possible explanations of exceptions.

The evidence derived from this Exhibit is, first, that the meteorological conditions which existed at Monroe during the months in which there were the greatest number of deaths from this disease, were in marked contrast with the set of conditions observed during the months in which the least number occurred. There are so few exceptions to the general tendency

of the evidence that it seems difficult to avoid the conclusion that some of these conditions were the cause of death, if not the exciting cause of this disease. It will be noticed that the least number of deaths occurred in July, when the mean daily range of temperature was less than the average for the year, when the humidity of the atmosphere was greatest, the rainfall greatest, and the mean temperature higher than in any other month. The air then was warm, moist, and uniform in temperature, and the number of deaths from this disease in each month seems to have been in direct proportion to the absence of one or more of these conditions, although more closely connected with humidity than with either of the other two. This is partially made apparent by comparing July with August, which was third in order of mortality, and was next to the highest month in temperature, but the humidity was not one-half of the average, and the mean daily range of temperature was next to that of the highest month. The insufficiency of range of temperature alone, as a cause, is shown by a study of the conditions in November, when there were more than an average number of deaths, and the mean daily range for the month was the least in the year; but here again the humidity was slight, and the temperature was also low. The greatest number of deaths occurred in December, when the range of temperature was slightly less than the average, but the air was very dry and cold, the mean temperature for the month being 31.05°F . These observations are of out-door conditions, and it should be remembered that the capacity of air for moisture is much less when cold than when warm, so that cold air saturated with moisture, if heated, calls for more water, and will have it, even though it be taken out of our bodies. If the air be heated before breathing, there is some chance of its obtaining moisture from other sources, but if it be breathed cold, and heated by contact with the air passages while confined therein, it must take from them an unusual amount of moisture, tending to render them dry, parched,

and inflamed, if long continued. Croup is an inflammation of the tissues lining the air passages.

Consider, for a moment, some of the familiar conditions under which children in country residences have croup. During the day they are about the house breathing the air which has been heated, and in many cases quite liberally supplied with moisture from the kettles upon the stove, and, although they may have coughed a little the night before, the parents have no uneasiness until after the cooking has been done for the day, and the air beginning to lack moisture, a little one again begins to cough; perhaps not, however, until all have gone to bed, the fire out, and the crisp, cold air is breathed in, heated, and carries off with each expiration a great amount of moisture, and, depositing it upon the window pane, again returns for more, until finally the family are startled by the peculiar, dry, metallic, croupy cough. It is none too early then to rapidly build a fire, put on the tea-kettle, and perhaps send for the doctor.

Diarrhea.—This disease was fifth in order of greatest mortality, and resulted in the death of 295 persons, of whom there were thirty-one more males than females,—a difference of 10.45 per cent. The greatest number of deaths occurred in August, September, July, and October, in above order. In these four months there were 234 deaths, leaving only sixty-one to be distributed through the other months; the least number being two, in February. Two hundred and sixty-one, or 88 per cent of all the deaths, were of children under five years of age. The period of age between fifteen and twenty was most exempt from death by this cause, only one having been recorded.

Diphtheria.—Rather more than the average number of males died from this disease. The order of mortality for the four worst months was September, October, December, and March, which was the same as in first report. The number for these months was respectively, fourteen, twelve, ten, and nine. Fifty-

two per cent of all deaths were of children under five, and twenty-six per cent were between five and ten years of age. The death of only one person was recorded over forty years of age, this one being between fifty and sixty.

Dysentery.—A very large proportion of the deaths from this disease were of males, being 57.62 per cent. The order of greatest mortality was September, August, October, July, etc. In the four months mentioned there were respectively ninety-six, sixty-three, thirty-one, and twelve deaths, making two hundred and two, and leaving thirty-four to be distributed through the other months. Only two deaths occurred in February, and two in March. The deaths from this disease were not quite as closely confined to children as were those from diarrhea, although 79 per cent were of children under five years of age. The age at which the least number occurred was the same as for diarrhea—between fifteen and twenty, during which period less than one per cent of the deaths occurred.

Measles.—This disease also caused the death of many more males than females. The greatest proportion occurred in the latter part of winter and spring. The greatest number in one month was twenty-nine, in March. In 1868 the greatest number was also reported in March. In order to show whether or not the deaths from this disease depend mainly upon season, and the disease of itself not necessarily fatal if the surrounding conditions are properly regulated, a few years' time might suffice, if the question could be studied in connection with these statistics; and, in addition, we could have the number of cases of sickness from this disease.

Scarlatina.—This was sixth in the order of causes producing greatest mortality, and resulted in the death of 252 persons. The proportion of females was slightly greater than the average. It was most fatal in December, causing thirty-nine deaths, and next in March; then the order was April, October, September, June, January; in November fifteen deaths, and fourteen in each of the months of February, May, July, and

August. In the first Report in this State, the greatest number of deaths were in December, and in the second Report the number in this month was next to the greatest. So far as this goes, it indicates that the deaths are in some measure dependent upon conditions of season, and goes towards enforcing the value of the knowledge already established by the medical profession. During the general destruction and throwing off of the skin and lining membranes of the excretory organs, particularly of the kidneys, now known to be a source of danger in this disease, it is insisted that these organs should be helped as much as possible, that while the kidneys are in such bad condition the skin should relieve them and supplement their action to some extent, by increased excretion through perspiration. This cannot well occur in December without extra artificial aid, and as winter comes on it might, perhaps, be expected that more deaths would result. There are many things to be considered, however, and among them the greater liability to spread the disease at seasons of the year when children come most together, at school or at play. It is to be hoped that the time will soon come when the subject will appear of sufficient importance to induce the people to take measures to stop the spread of this disease by destroying the contagious matter, through the proper use of such effective agents as carbolic acid and fire.

Typhoid Fever.—A greater number of deaths were reported from this cause than from any other, except consumption. The number was 437. The proportion of the sexes was about the average. The greatest number of deaths in one month was 79, in October; the order of mortality, by months, was then, September, 76; August, 51; November, 45; December, 38, when the number was rapidly decreased, the least in one month being 16, in June. The age at which the greatest number died was during the period from twenty to thirty; next greatest number, between fifteen and twenty; then, under five years of age, but no period of age was entirely exempt.

Whooping Cough.—One hundred and fifty-eight deaths were reported from this cause. The difference in the percentages of the sexes was 1.90 more females than males, while the average from all causes was 5.39 more males than females. The greatest number in one month was 29, in September. The least number was 3, in January. All deaths except nine were of children under five years of age.

TABLE XIV—OCCUPATIONS.

Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages, of all whose Occupations and Ages were Returned, of those who Died during the Year 1869, aged Twenty Years and over, Months and Days Excluded.

CLASS.	OCCUPATIONS.	No. of Persons.	AGES.	
			Aggregate.	Average.
	All classes of occupations.....	1,868	94,741	50.66
I.	Cultivators of the Earth.....	951	58,195	55.98
II.	Active Mechanics Abroad.....	87	4,472	51.40
III.	Active Mechanics in Shops.....	97	4,812	49.60
IV.	Inactive Mechanics in Shops.....	54	2,965	54.90
V.	Laborers—No Special Trades.....	148	5,768	40.83
VI.	Agents, Laborers abroad, etc.....	47	1,855	44.16
VII.	Seafaring Men.....	24	988	29.08
VIII.	Soldiers.....	4	189	34.75
IX.	Business Men.....	87	3,800	48.67
X.	Professional Men, etc.....	55	2,654	48.25
XI.	Females.....	319	14,148	41.20
I.	Cultivators of the Earth.....	951	58,195	55.98
	Farmers.....	946	52,902	55.99
	Gardeners.....	5	298	58.60
II.	Active Mechanics Abroad.....	87	4,472	51.40
	Brickmakers.....	1	60	60.00
	Carpenters.....	66	3,311	50.16
	Masons.....	13	755	58.07
	Painters.....	6	304	50.66
	Stencil Cutters.....	1	42	42.00
III.	Active Mechanics in Shops.....	97	4,812	49.60
	Blacksmiths.....	22	1,167	53.04

TABLE XIV—CONTINUED.

CLASS.	OCCUPATIONS.	No. of Persons.	AGES.	
			Aggregate.	Average.
III.	Active Mechanics in Shops—(Continued).			
	Boiler Makers.....	8	115	88.88
	Brewers.....	4	102	40.50
	Button Makers.....	1	77	77.00
	Cabinet Makers.....	1	68	68.00
	Carriage and Wagon Makers.....	7	383	54.71
	Carvers.....	1	44	44.00
	Cooks.....	1	50	50.00
	Coopers.....	8	484	60.50
	Fillers.....	1	85	85.00
	Gunsmiths.....	1	62	62.00
	Locksmiths.....	1	32	32.00
	Machinists.....	4	149	87.25
	Mechanics.....	16	708	48.98
	Millers.....	13	678	51.76
	Millwrights.....	1	64	64.00
	Potters.....	2	130	65.00
	Pump Makers.....	2	90	45.00
	Sawyers.....	3	71	28.66
	Tinkers.....	1	65	65.00
	Trimmers.....	1	37	37.00
	Undertakers.....	1	47	47.00
	Upholsterers.....	1	85	85.00
	Weavers.....	1	74	74.00
IV.	Inactive Mechanics in Shops.....	54	2,965	54.90
	Barbers.....	1	21	21.00
	Cigar Makers.....	1	68	68.00
	Glove Makers.....	2	95	47.50
	Hatters.....	1	98	98.00
	Jewelers.....	2	106	54.00
	Saddlers and Harness Makers.....	8	145	48.88

TABLE XIV—CONTINUED.

CLASS.	OCCUPATIONS.	No. of Persons.	A G E S.	
			Aggregate.	Average.
IV.	Inactive Mechanics in Shops—(Continued).			
	Shoemakers.....	28	1,554	55.50
	Tailors.....	16	886	55.37
V.	Laborers—No Special Trades	143	5,768	40.32
	Copper Washers	1	24	24.00
	Laborers.....	120	4,985	41.12
	Laborers on Railroad	4	154	38.50
	Mill Hands.....	1	27	27.00
	Miners.....	11	419	38.09
	Quarrymen	1	20	20.00
	Raftsmen	2	50	29.50
	Railroad Repairers	1	38	38.00
	Well Diggers.....	2	97	48.50
VI.	Agents, Laborers abroad, etc	42	1,855	44.16
	Agents.....	2	93	46.50
	Baggage Masters	1	29	29.00
	Butchers	4	164	41.50
	Deputy Sheriffs.....	1	35	35.00
	Draymen.....	1	26	26.00
	Engineers	7	272	38.85
	Fishers and Hunters	1	35	35.00
	Hack Drivers.....	1	45	45.00
	Hotel Runners.....	1	37	37.00
	Hunters.....	2	140	70.00
	Hunters and Farmers (Indian).....	1	57	57.00
	Indian Chiefs.....	1	98	98.00
	Lumbermen.....	5	267	53.40
	Mine Captains.....	1	54	54.00
	Musicians.....	1	24	24.00
	Peddlers	1	22	22.00
	Policemen.....	1	44	44.00

TABLE XIV—CONTINUED.

CLASS.	OCCUPATIONS.	No. of Persons.	AGES.	
			Aggregate.	Average.
VI.	Agents, Laborers Abroad, etc.—(Continued).			
	Railroad Conductors.....	1	38	38.00
	Revenue Officers.....	1	46	46.00
	Selling Fruit Trees.....	1	30	30.00
	Teamsters.....	5	213	43.60
	Veterinary Surgeons.....	2	86	43.00
VII.	Seafaring Men.....	24	988	39.08
	Fishermen.....	7	271	38.71
	Sailors.....	17	667	39.28
VIII.	Soldiers.....	4	189	34.75
	Captains.....	1	68	68.00
	Soldiers.....	3	76	25.38
IX.	Business Men.....	87	3,900	43.67
	Auctioneers.....	1	59	59.00
	Bankers.....	1	28	28.00
	Boarding House Keepers.....	1	45	45.00
	Book-keepers.....	5	181	36.20
	Builders.....	1	76	76.00
	Clerks.....	9	241	26.77
	Druggists.....	1	25	25.00
	Foundry Proprietors.....	1	57	57.00
	Furniture Dealers.....	1	61	61.00
	Grocers.....	7	302	43.14
	Hotel Keepers.....	9	488	43.11
	Jobbers.....	1	49	49.00
	Lumber Dealers.....	2	140	70.00
	Lumber Manufacturers.....	2	60	30.00
	Manufacturers.....	1	59	59.00
	Merchants.....	27	1,216	45.08
	Mill Owners.....	1	64	64.00

TABLE XIV—CONTINUED.

CLASS.	OCCUPATIONS.	No. of Persons.	Ages.	
			Aggregate.	Average.
IX.	Business Men—(Continued).			
	Real Estate Agents.....	9	110	55.00
	Retired Gentlemen.....	1	77	77.00
	Railroad Contractors.....	1	86	86.00
	Railroad Secretary and Treasurer.....	1	49	49.00
	Saloon Keepers.....	7	308	48.28
	Speculators.....	1	45	45.00
	Telegraphers.....	2	58	29.00
	Tobacconists.....	1	26	26.00
X.	Professional Men, etc.....	55	2,654	48.25
	Artists.....	1	80	80.00
	Catholic Priests.....	2	106	53.00
	Circuit Judges.....	2	116	58.00
	Clergymen.....	11	624	56.71
	Editors.....	1	46	46.00
	Justices of the Peace.....	1	54	54.00
	Lawyers.....	11	580	48.18
	Physicians.....	15	867	57.80
	Sculptors.....	1	80	80.00
	Students.....	5	105	21.00
	Teachers.....	5	146	29.20
XI.	Females.....	819	14,148	41.90
	Cabinet-makers' Wives.....	1	40	40.00
	Carpenters' Wives.....	1	88	88.00
	Coopers' Wives.....	1	42	42.00
	Employed on Lake.....	1	68	68.00
	Farmers' Wives.....	118	5,523	46.80
	Housekeepers.....	140	6,228	44.45
	Housework.....	7	327	46.71
	Laborers.....	6	276	45.98
	Mechanics' Wives.....	1	29	29.00

TABLE XIV—CONTINUED.

CLASS.	OCCUPATIONS.	No. of Persons.	AGES.	
			Aggregate.	Average.
XI.	Females—(Continued).			
	Merchants.....	1	88	88.00
	Merchants' Wives.....	2	94	47.00
	Milliners.....	8	76	25.83
	Physicians' Wives.....	1	72	72.00
	Sawyers' Wives.....	1	28	28.00
	Seamstresses.....	6	289	48.16
	Servants.....	2	43	21.50
	Stage-drivers' Wives.....	1	25	25.00
	Straw Workers.....	1	27	27.00
	Teachers.....	19	451	28.73
	Weavers.....	6	445	74.16

The returns compiled in Table XIV were not yet perfect. Subtracting from the whole number of deaths all those under twenty years of age, and all whose age was unknown, and there remain 3,965 cases in which the occupation might have been given, while it was given in only 1,863 cases, or of less than one-half of all persons who were reported as having died at and above the age of twenty years. The information to be derived from this table is valuable, notwithstanding, and there is reason for congratulation that in this Report the occupation is given in a greater proportion of cases than in the Report for 1868 for Massachusetts, where they have collected statistics for twenty-seven years.

The average age of all, twenty and over, whose occupations and ages were returned, was 50.85 years. This is only .28 of a year different from the average in Massachusetts for twenty-five years and eight months, ending December 31st, 1868, that average being 50.57. If other things were equal, this would

indicate that the death-rate of persons aged twenty and over was about the same in this State as in Massachusetts, while the fact is that if the population of Massachusetts for 1868 be estimated at 1,289,200, as given on page 65 of their Report for that year, and the percentage of deaths reported of persons twenty and over, be taken, it will be found to be about three times as great as the percentage of deaths of persons at corresponding ages reported in this State in 1869, using as a basis of calculation the estimated population in 1869, found by subtracting thirty thousand from that of June, 1870, as at page 59 of this Report. There may be several explanations of this discrepancy, among which may be mentioned, first, the fact that the occupation is not given, in either State, in one-half the cases in which it might be; secondly, the probability that in this State the records of mortality are not yet quite as closely collected as they are in Massachusetts, and if so, the death-rate in this State is accordingly low; thirdly, the population being largely made up of people from other States, and young people more likely than old to leave their homes and go to a new State, there is a smaller proportion of old people in the population,—the average age of the people is probably less than in Massachusetts. Again, the death-rate is low because the most vigorous of the young people tend to settle in new States. And, finally, the rate is low, it is believed, because the climatic and other natural conditions for life and longevity are as good in this State as in any other State, territory, or country. Although lying, in great part, north of the isothermal line, which has been pointed out as the most favorable to human prosperity, the large bodies of water which surround the Lower Peninsula, except on the south, render the atmosphere much more uniform as regards humidity and temperature, than it would be otherwise, or than it is in other places. In the light of what appears in this Report (pp. 62, 96, and 97) regarding the connection between mean daily range of temperature and the death-rate, this fact seems to be of more

importance than would at first appear. The reports of vital statistics of other States have not generally shown, in connection with the death-rate, the mean daily range of temperature. In Massachusetts, where vital statistics have been systematically and carefully kept for twenty-eight years, if this point had been considered, the question of its influence might, so far as that State is concerned, have been long since decided.

It will be seen that more than one-half of the whole number whose occupations and ages were given, were cultivators of the soil. The average age of these 951 persons was 55.93 years,—the highest average of all the classes. The order was then, inactive mechanics in shops, 54.90; active mechanics abroad, 51.40; active mechanics in shops, 49.60; professional men, 48.25; agents, laborers abroad, etc., 44.16; business men, 43.67; females, 41.20; laborers, 40.32; sea-faring men, 39.08; soldiers, 34.75.

In Class I, the gardeners lived to a greater age than the farmers, by three years. Among the active mechanics abroad was one brickmaker aged 60. The masons lived next longest, their average age being 58.07. In other Classes there were long-lived individuals in several occupations, for instance: one hatter aged 93; button maker, 77; weaver, 74; one Indian chief, 93; two hunters averaged 70; one Indian, hunter and farmer, 57. Of the laborers, well-diggers averaged the longest lived, and they only 48.50 years. Professional men were the fifth class in the order, averaging 48.25 years. This was made low by including the students and teachers. If only the three professions of Divinity, Law, and Medicine be taken, the average would be 54.70,—about equal to the inactive mechanics in shops,—while physicians alone averaged older than any one of the classes, being 57.80 years, a higher average than any other employment in which so large a number was reported. Business men, as a class, were a little over seven years short of the average. Several individuals, however, were quite old. One retired gentleman was 77; builder, 76; lumber dealer, 70.

The merchants averaged 45.03,—three years less than the hotel keepers; grocers about two years less than merchants, and book-keepers about seven years less than grocers, or a little over fourteen and a half years less than the average of all occupations reported. Seafaring men and soldiers were short-lived, although one captain was 63 years old.

Among the females, the occupation of weaving seems to be remarkably conducive to long life, six weavers averaging 74.16 years old. Next to this comes a physician's wife, aged 72. This last person had lived nearly thirty-one years longer than the average of all females aged twenty and over, whose occupations and ages were returned, that average being only 41.20 years.

TABLE XV—CAUSES OF DEATH.—NOSOLOGICAL ARRANGEMENT.

Exhibiting the Number of Deaths in each County, from Specified Causes (statistically classified), during the year 1869 (Still-births included).

CAUSES OF DEATH.	COUNTIES.																			
	Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gd. Traverse.
All causes	9,145	1 205	80	10 153	116	20 215	181	271	500	10	9	171	198	40 228	42	171	198	40 228	42	171
* Specified causes.....	7,968	1 177	29	8 133	100	16 185	159	250	181	10	7	143	178	20 203	28	143	178	20 203	28	143
CLASSES.																				
I.—Zymotic Diseases.....	2,518	52	15	2 39	41	6 50	45	75	70	1	8	41	54	7 66	9	41	54	7 66	9	41
II.—Constitutional Diseases.....	1,734	40	2	2 25	16	8 51	36	67	42	2	2	38	41	1 43	5	38	41	1 43	5	38
III.—Local Diseases.....	2,334	1 60	8	4 40	25	4 58	59	70	54	8	1	50	56	9 69	14	50	56	9 69	14	50
IV.—Developmental Diseases.....	814	11	7	13	7	16	14	25	10	2	1	18	10	2 26	8	18	10	2 26	8	18
V.—Violent Deaths.....	408	14	2	13	10	8 10	5	18	5	2	2	6	10	1 9	2	6	10	1 9	2	6
ORDERS.																				
I.—1. Miasmatic Diseases.....	2,453	52	15	2 39	41	6 50	43	74	70	1	8	41	54	7 65	9	41	54	7 65	9	41
2. Euthetic Diseases.....	9																			
* Including Still-born.....																				

TABLE XV—CONTINUED.

CAUSES OF DEATH.	STATE.	COUNTIES.																		
		Alcona.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gd. Traverse.
ORDERS.																				
3. Dietic Diseases.....	13								1											
4. Parasitic Diseases.....	15								1	1										
II.—1. Diathetic Diseases.....	414	5	1		7	2	1	9	2	13	16	1			7		14		11	
2. Tubercular Diseases.....	1,920	85	1	2	21	14	2	42	84	54	26	1	2		26		27	1	82	5
III.—1. Diseases of Nervous System.....	975	1	19	1	13	16	2	24	26	25	13	8			26		30	6	15	4
2. Diseases of Organs of Circulation.....	274		7		5			2	8	6	7				6		4		12	1
3. Diseases of Respiratory Organs.....	621		20	1	1	7	2	13	16	20	20				8		13	8	18	4
4. Diseases of Digestive Organs.....	311		11	1	2	9	2	11	3	9	6		1		9		7		5	8
5. Diseases of Urinary Organs.....	87		2			1		2		4	8				1		3		2	1
6. Diseases of Generative Organs.....	18								4	1									1	1
7. Diseases of Organs of Locomotion.....	8				1															
8. Diseases of Integumentary System.....	45	1			2			1	2	8							1			8

IV.—1. Dev. Diseases of Children.....	273	2	4	6	8	1	4	15	3	2	8	9	7	9
2. Dev. Diseases of Adults.....	180	2	2	2	2	3	5	2	9	4	2	6	6	---
3. Dev. Diseases of Old People.....	310	7	1	3	2	10	8	7	4	6	4	12	1	---
4. Diseases of Nutrition.....	101	---	---	2	2	2	2	1	1	1	1	1	1	---
V.—1. Accident or Negligence.....	247	6	2	9	4	8	7	2	6	4	5	7	1	---
2. Battle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3. Homicide.....	6	---	---	---	1	---	---	---	---	---	---	---	---	---
4. Suicide.....	23	---	---	1	1	1	1	1	---	1	---	---	---	---
5. Execution.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6. Violent Deaths, not classed.....	192	8	---	8	4	2	8	6	2	1	5	1	2	1
Sudden Deaths (cause unascertained).....	1	---	---	---	---	---	---	---	---	---	---	---	---	---
* Causes not Specified.....	1,281	28	1	2	20	16	4	21	19	2	20	20	25	9

* Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease.

TABLE XV.—CONTINUED.

CAUSES OF DEATH.	STATE.	COUNTIES.																			
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gd. Traverse.
CLASS II. ORDER 1—Diathetic.																					
Totals.....	414		5	1	7	2	1	9	2	13	16	1	1	1	2	7	14	11	7	11	
2. Dropsy and Anemia.....	247		5		4	1	1	2	2	11	9		1	1	2	2	7	7	7		
3. Cancer.....	118				2	1	1	8		1	4		1	1	1	1	6	8	8		
4. Noma.....	47		1		1	1	1	8		1	3	1	1	1	1	3	1	1	1		
5. Mortification.....	7							1					1		1						
CLASS II. ORDER 2—Tubercular.																					
Totals.....	1,820		85	1	2	21	14	2	42	34	54	26	1	2	26	26	27	1	27	5	
1. Scrofula.....	60		1			2	1		1		8	8							4		
2. Tabes Mesenterica.....	8		2																		
3. Phthisis (Consumption of Lungs).....	1,241		82	1	2	19	13	2	41	34	51	23	1	2	26	26	27	1	27	5	
4. Hydrocephalus.....	11																		1		
CLASS III. ORDER 1—Nervous System.																					
Totals.....	975	1	19	1	1	18	16	2	24	26	25	18	8	1	26	26	80	6	18	4	

1. Cephalitis.....	226	1	3	1	7	9	8	4	6	1	8	4	4	1
2. Apoplexy.....	65	2	1	1	4	4	1	4	1	1	1	1	1	1
3. Paralysis.....	120	3	1	1	3	6	5	8	5	5	5	5	2	1
4. Insanity.....	19	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Epilepsy.....	12	1	1	1	1	1	1	1	1	1	1	1	1	1
7. Tetanus.....	10	1	1	1	1	1	1	1	1	1	1	1	1	1
8. Convulsions.....	256	4	1	4	4	1	3	5	7	1	1	8	2	2
9. Brain Diseases, etc.....	267	7	1	1	4	5	1	5	5	2	4	12	4	9
CLASS III. ORDER 2—Organs of Circulation.														
Totals.....	274	7	5	5	2	8	8	7	6	4	12	1	1	1
1. Pericarditis.....	22	1	1	1	1	1	1	1	1	1	1	4	1	1
3. Heart Disease, etc.....	252	7	5	5	2	8	8	6	6	8	8	8	8	8
CLASS III. ORDER 3—Respiratory Organs.														
Totals.....	621	20	1	1	10	7	2	18	16	20	20	18	8	4
2. Laryngitis.....	8	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Bronchitis.....	11	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Pleurisy.....	14	2	1	1	1	1	1	2	2	2	2	2	2	2
5. Pneumonia.....	455	18	1	8	7	2	18	14	18	17	5	9	8	2
6. Asthma.....	24	2	1	1	1	1	1	1	1	1	1	1	1	1
7. Lung Diseases, etc.....	114	2	2	2	4	2	4	2	4	4	8	8	2	2

CLASS III. ORDER 5—Urinary Organs.

Totals.....	2	1	2	4	8	1	8	2	1
1. Nephritis.....				1					
4. Diabetes.....			1		1				1
5. Calculus (Gravel, etc.).....	1	1			1	1	1	1	
6. Cystitis.....	1			8	1				
7. Kidney Disease, etc.....			1				2	1	

CLASS III. ORDER 6—Generative Organs.

Totals.....				4	1			1	1
1. Ovarian Dropsy.....				8	1				
2. Disease of Uterus, etc.....				1				1	1

CLASS III. ORDER 7—Organs of Locomotion.

Totals.....	1								
1. Arthritis.....		1							
2. Joint Disease, etc.....									

CLASS III. ORDER 8—Integumentary System.

Totals.....	1	2	1	2	8		1	8	
1. Phlegmon.....	1	1			1		1	1	1
2. Ulcer.....				1	1			1	1
3. * Skin Disease, etc.....		1	1	1	1			1	1

* Including 17 from Tumor.

THIRD REGISTRATION REPORT.

TABLE XV—CONTINUED.

CAUSES OF DEATH.	STATE.	COUNTIES.													
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzle.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.
Class IV. Order 1—Developmental Diseases of Children.															
Totals.....	278	2	4	4	6	8	1	4	15	8	2	3	2	1	2
1. Still-born.....	129	1	1	5	5	1	1	1	10	2	1	2	1	1	1
2. Premature Birth and Infantile Debility.....	51	4	4	1	1	1	2	3	8	1	1	1	2	5	2
3. Cyanosis.....	2														
4. Spina Bifida.....	2														
5. Other Malformations.....	4					1	1								
6. Teething.....	85	1	1		2	2	1		2	1	1	1	1	1	1
Class IV. Order 2—Developmental Diseases of Women.															
Totals.....	180	2	2	2	2	2	3	5	2	2	2	2	2	6	6
1. Puerperia.....	2														
2. Child-birth.....	128	2	2	2	2	2	3	5	2	2	2	2	2	2	2

DEATHS.

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CLASS IV. ORDER 3—Developmental Diseases of Old People.													
310	7	1	8	2	10	8	7	4	1	6	4	12	1
CLASS IV. ORDER 4—Diseases of Nutrition.													
101			2	2	2	2	1	1		1	1	1	
1. Atrophy and Debility.													
CLASS V. ORDER 1—Accident or Negligence.													
247	6	2	9	4	8	7	6	8	1	4	5	7	1
26	1		1		1	1	2					1	
16			1										
1. * Fractures and Contusions.													
2. Wounds.													
68	3	1	2		2	2	2	8		1	2	4	
16				1	1	1				1			
3. Burns and Scalds.													
4. Poison.													
96	2	1	3	3	2	1	1	1	1	1	3	2	1
25			2		1	1				1			
5. Drowning													
6. Suffocation													
6				1									
CLASS V. ORDER 3—Homicide													
28			1	1	1	1				1			
CLASS V. ORDER 4—Suicide.													
192	8		3	4	2	3	6	2	1	1	5	1	2
1													
CLASS V. ORDER 6—Violent Deaths, not classed above.													
Sudden—cause unknown.													
1,981	98	1	2	20	16	4	80	22	21	19	20	25	9
+ Causes not specified.													

* Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease.

ORDERS.														
3. Dietic Diseases.....	1	1											1	
4. Parasitic Diseases.....				1									1	1
II.—1. Diathetic Diseases.....	5	18	1	8	11	9		1	11	18			8	1
2. Tubercular Diseases.....	9	83	6	9	48	63	3	6	39	82	39		20	9
III.—1. Diseases of Nervous System.....	4	22	9	3	22	22	1	4	31	45	47		10	3
2. Diseases of Organs of Circulation.....	2	12	3	1	6	9			5	10	12		4	
3. Diseases of Respiratory Organs.....	7	18	9	1	18	18		3	18	25	27		10	2
4. Diseases of Digestive Organs.....	3	4	2	1	5	5			7	8	17		4	2
5. Diseases of Urinary Organs.....	3	1			2	1			8	2	5		2	
6. Diseases of Generative Organs.....			1							1	1		1	
7. Diseases of Organs of Locomotion.....														
8. Diseases of Integumentary System.....	1				1				3	3	1		1	1

* Including Still-born.

CLASS I. ORDER 1—Miasmatic.

Totals	23	50	41	12	60	56	4	7	63	60	93	26	10	72	93	20	19	88	7
1. Smallpox	---	---	---	3	---	---	---	---	---	2	---	---	---	---	---	6	1	---	---
2. Measles	---	---	11	1	1	8	---	2	3	---	---	1	---	---	6	9	1	4	---
3. Scarlatina	2	1	5	---	24	3	---	8	4	15	12	---	---	17	---	10	---	6	---
4. Diphtheria	---	---	4	---	1	---	---	1	4	2	4	---	---	1	1	8	---	2	---
5. Quinsey	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6. Croup	---	---	10	1	4	1	1	5	3	5	---	---	---	1	1	6	1	4	---
7. Whooping Cough	---	8	---	---	4	2	---	4	6	2	---	3	2	2	---	1	---	2	---
8. + Typhus	13	40	---	3	12	23	---	2	24	13	36	4	1	15	15	15	8	15	3
9. Erysipelas	2	1	---	---	4	2	1	---	1	5	---	1	---	1	1	2	---	1	---
10. Metria (Puerperal Fever)	---	---	---	1	3	---	---	---	---	1	---	1	---	1	---	---	---	---	---
11. Carbuncle	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---
12. Influenza	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13. Dysentery	3	2	7	---	6	6	2	4	2	5	2	1	2	8	2	---	2	---	1
14. Diarrhea	---	3	4	---	3	2	2	---	8	7	16	---	8	4	---	5	2	4	---
15. Cholera Infantum	---	1	3	---	1	---	---	---	5	7	3	1	---	14	2	1	1	1	---
16. + Cholera	---	---	---	---	2	---	---	1	---	---	---	---	---	5	---	---	1	---	---
17. Ague	---	2	---	---	4	4	---	---	2	6	1	2	---	4	1	2	2	---	2
18. Remittent Fever	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19. Rheumatism	---	---	1	---	---	5	---	---	3	3	1	---	---	4	---	---	---	---	---

* Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease. + Including 437 from Typhoid Fever, 248 from Fever, 41 from Billous Fever, and only 9 reported from Typhus. ‡ Including 21 from Cholera Morbus.

[illegible]

5. Ulceration of Intestines.....												1	1							
6. Hernia.....													1				4		1	
7. Ileus.....														1						
8. Intussusception.....																	1			
11. Stomach Diseases, etc.....	1					2				2	2	7					1		8	
13. Hepatitis.....																				
14. Jaundice.....							1					1	1				1			
15. Liver Disease, etc.....	1				1	1	1			2	1	2					2	2	2	2
CLASS III. ORDER 5—Urinary Organs.																				
Totals.....	8	1				2	1			3	2	5			2		8	2	5	
1. Nephritis.....															1					
4. Diabetes.....	1	1				1	1			2	1	2			1		1		1	
5. Calculus (Gravel, etc.).....	1					1				1					1		2	1	2	
6. Cystitis.....																				
7. Kidney Disease, etc.....	1										1	2						1	2	
CLASS III. ORDER 6—Generative Organs.																				
Totals.....					1							1	1		1			1	2	
1. Ovarian Dropsy.....																				
2. Disease of Uterus, etc.....																			2	
CLASS III. ORDER 7—Organs of Locomotion.																				
Totals.....													1	1		1			1	
Arthritis																				

CLASS IV. ORDER 2—Dev. Dis. of Women.															
Totals.....	1	8	2	8	2	1	1	4	1	2	4	8	1	2	2
1. Puerperia.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Child-birth.....	1	2	2	8	2	1	1	4	1	2	4	8	1	2	2
CLASS IV. ORDER 3—Developmental Dis. of Old People.															
1. Old Age.....	2	9	3	9	5	2	1	8	6	18	4	1	9	6	2
CLASS IV. ORDER 4—Diseases of Nutrition.															
1. Atrophy and Debility.....	1	3	1	1	1	1	1	11	2	3	1	2	3	1	1
CLASS V. ORDER 1—Accident or Negligence.															
Totals.....	5	4	6	4	8	9	1	10	6	7	9	1	8	9	8
1. * Fractures and Contusions.....	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1
2. Wounds.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Burns and Scalds.....	3	1	4	1	1	1	1	2	1	4	2	3	4	2	1
4. Poison.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5. Drowning.....	1	2	2	2	5	5	2	2	1	1	1	2	1	1	1
6. Suffocation.....	1	1	1	1	2	2	4	1	1	1	2	1	1	1	1
Class V. Order 2—Homicide.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Class V. Order 4—Suicide.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CLASS V. ORDER 6—Violent Deaths, not classed above.															
2	8	7	2	4	1	2	1	2	8	6	8	2	9	1	8
Sudden—cause unknown.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
† Causes not specified.....	18	37	25	6	81	87	13	8	19	29	31	17	13	29	37

* Including 15 from Hemorrhage, 85 from Inflammation, and 90 from Throat Disease.

II.—1. Diathetic Diseases.....	4	1	15	8	2	14	3	1	11	19	1	7	9	9	8	17	51	1				
2. Tubercular Diseases.....	6	1	2	34	16	11	2	32	5	2	1	80	41	8	19	42	35	18	85	43	133	2
III.—1. Diseases of Nervous System.....	2	4	30	7	14	6	23	12	3	1	19	36	6	11	23	19	8	11	24	170	---	
2. Diseases of Organs of Circulation.....	4	1	15	---	2	---	5	2	1	---	3	13	3	6	11	5	1	6	7	32	---	
3. Diseases of Respiratory Organs.....	1	---	23	5	16	9	22	7	---	18	30	2	10	10	12	3	13	12	64	---	---	
4. Diseases of Digestive Organs.....	---	1	4	6	4	---	9	3	1	1	13	12	3	6	6	13	6	9	7	35	1	
5. Diseases of Urinary Organs.....	---	---	2	1	1	---	7	1	---	2	1	---	4	2	---	3	4	4	7	---	---	
6. Diseases of Generative Organs.....	---	---	---	---	---	---	---	1	---	1	---	1	---	1	---	---	---	---	---	---	---	
7. Diseases of Organs of Locomotion.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	
8. Diseases of Integumentary System.....	---	---	1	---	---	---	3	---	---	2	1	---	4	2	---	4	3	---	---	---	---	
IV.—1. Dev. Diseases of Children.....	---	1	---	7	---	1	1	5	---	15	25	1	4	3	4	2	7	2	70	---	---	
2. Dev. Diseases of Adults.....	1	1	---	4	1	2	1	4	1	2	1	2	12	3	4	5	3	2	1	4	14	---
3. Dev. Diseases of Old People.....	2	1	16	7	4	1	19	1	1	8	13	5	5	6	12	3	9	9	33	---	---	
4. Diseases of Nutrition.....	---	---	1	---	1	---	---	---	---	5	6	1	1	3	5	---	1	---	37	---	---	
V.—1. Accident or Negligence.....	2	2	7	3	4	2	10	1	2	4	3	1	3	11	3	---	5	4	21	---	---	
2. Battle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
3. Homicide.....	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	
4. Suicide.....	---	---	1	---	1	---	---	---	---	2	1	---	---	---	---	1	1	1	1	---	---	
5. Execution.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

* Including Still-born.

2. Apoplexy.....	1	1	2	6	...	2	2	2	...	5	1	1	4	8
3. Paralysis.....	2	...	...	4	1	...	2	...	...	1	1	2	3	16
4. Insanely.....	...	...	...	2	...	...	1	...	...	...	...	...	3	...
5. Epilepsy.....	1	...	...	...	...	...	...	1	...	...	...	...	2	...
6. Tetanus.....	...	...	...	...	...	...	...	2	...	1	...	1	1	...
7. Convulsions.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8. Brain Diseases, etc.....	1	3	14	2	8	3	6	1	1	7	7	2	4	5
9. Class III. ORDER 2—Organs of Circulation.														
Totals.....	4	1	15	2	5	2	1	...	...	8	18	3	6	11
1. Pericarditis.....	1	...	...	...	1	...	...	...	...	1	1	...	...	...
2. Heart Disease, etc.....	3	1	15	2	4	2	1	...	...	2	12	8	5	10
3. Class III. ORDER 3—Respiratory Organs.														
Totals.....	1	23	5	16	9	22	7	...	...	19	80	2	10	10
1. Laryngitis.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2. Bronchitis.....	...	...	...	2	...	1	1	...	...	...	...	1	...	...
3. Pleurisy.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4. Pneumonia.....	1	19	5	18	8	19	5	...	...	11	23	1	9	3
5. Asthma.....	...	3	...	...	...	...	...	...	...	...	...	...	...	...
6. Lung Diseases, etc.....	...	1	...	1	1	1	...	...	...	6	5	1	1	6
7. Class III. ORDER 4—Digestive Organs.														
Totals.....	1	4	6	4	...	9	8	1	1	18	12	3	6	6
1. Gastritis.....	...	...	...	...	...	...	...	...	...	1	...	...	...	...

TABLE XV.—CONTINUED.

CAUSES OF DEATH.	COUNTIES.																					
	Neosota.	Menominee.	Midland.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Saginaw.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Westford.
2. Enteritis.....				3	1	1		4	1		1	5	6		4	1	6	1	4	2	17	
3. Peritonitis.....												1	1									
5. Ulceration of Intestines.....																						
6. Hernia.....							1						1	1		1		1				
7. Ileus.....																						
8. Intussusception.....																						
11. Stomach Diseases, etc.....				2	8		1	2	1			2	1	1	1	3	5	3	2	3	8	1
13. Hepatitis.....														1			1					
14. Jaundice.....	1		1				1					1	1									
15. Liver Disease, etc.....				3			2					3	2			1	1	2	1	1	8	
CLASS III. ORDER 3.—Urinary Organs.																						
Totals.....				2	1	1	7	1				2	1		4	2		8	4	4	7	
1. Nephritis.....												1										
4. Diabetes.....							1	1					1		1	1		1	8	1		
5. Calculus (Gravel, etc.).....	2						1					1			1			1	1	1	2	

[illegible]

* Including 17 from Tumor.

Remarks on Table XV, and hints designed to aid in its analysis.—The plan of classification is the same as in previous reports, being the one in most general use in this and other countries. A new and uniform system of classification, it is believed, would greatly facilitate the advance of knowledge in this direction; but while other States hold to this plan, it is only by so doing that we can make comparisons with them. No extensive comparisons between this and other States can yet be made to good advantage, because of the extremely slight attention which this subject has received in this State. Of the States whose reports are at hand, Massachusetts is, perhaps, the one most favorable for this purpose, having, so far, furnished the model vital statistics, after which other States have copied to a great extent. By this classification, all deaths from specified causes are finally arranged in five classes, and the number of deaths from each, in the State, and in each county, is shown in the table. The classes are made up of orders, and the orders of the specified causes of death. The method of analysis and comparison should be the same in each case, but will, this time, only be applied to the classes, and with them, only extend to divisions of the State. The proportion of deaths from each class for 1869, and the average of all yet reported, and comparisons with the same classifications in Massachusetts, will be seen by the following:

EXHIBIT B.

Percentage of Deaths from each Class of Causes to Deaths from all Specified Causes, in this State, for the year 1869, for Two and Three-quarters years, ending with 1869, and in Massachusetts for Five years ending with 1868, and Comparisons between the same.

CLASSES.	Mass.—5 years, ending with 1868.	Mich.—2¾ yrs., ending with 1869.	Mich.—1 year, 1869.	Excess in Mass. over average for 2¾ years in Mich.	Ex's over Mass. of av'ge for 2¾ years in Mich.	Ex's over Mich. in 1869 of av- erage for 5 yrs in Mass.	Excess in Mich., 1869, over av- erage 5 years in Mass.
I—Zymotic Diseases.....	28.14	28.80	31.95	-----	.66	-----	3.81
II—Constitutional Diseases...	25.08	22.27	22.05	2.31	-----	3.03	-----
III—Local Diseases.....	26.04	31.07	29.68	-----	5.03	-----	3.64
IV—Developmental Diseases.	16.47	11.46	10.35	5.01	-----	6.12	-----
V—Violent Deaths.....	4.27	6.89	5.95	-----	2.12	-----	1.88

The difference shown here between the two States is no greater than between different years in Massachusetts, although it is, perhaps, in a little different direction. So far as this comparison goes, it will be seen that in Massachusetts a greater proportion of deaths occurred from constitutional and developmental diseases. (What special diseases are included in these classes, can be seen by referring to the table. Consumption is the principal one in Class II, and old age and still-births in Class IV.) In this State a greater proportion of deaths occurred from zymotic and local diseases, and from violence. The difference between the two States is not as great as we shall find between different parts of our own State; as might be expected, when it is remembered that between the northern and southern parts of Michigan the difference in latitude is as great as it is between the northern part of Maine and the southern part of Massachusetts. In order to make some slight use of the very favorable conditions existing in this State for studying the causes of death, the State has been divided into eleven geographical divisions, in each of which some of the conditions are obviously different from those of

any other division. Geological and topographical differences, although of great importance, cannot, in this report, receive the time and attention deserved. The coming report of the State Geologist will doubtless contain much more of value in this connection, and will furnish material with which the future compiler of these vital statistics can, if provision be made for it, trace much more closely the conditions and causes of death in the several geographical divisions. Some other division of the State, based upon surface formation, water supply, soil, and vegetable products, should also yield valuable knowledge in connection with these statistics; in fact, there is here a vast field, as yet untilled and barren, which a very small outlay should render productive of much good to the people. The following are the divisions here adopted, and the counties embraced in each: Upper Peninsula—Includes all the counties there from which returns were received. Northwestern—Includes counties of Benzie, Grand Traverse, Leelanaw, Manistee, and Wexford. Northern—Includes Antrim, Charlevoix, Cheboygan, and Emmet. Northeastern—Includes Alcona, Alpena, and Iosco. Western—Includes Kent, Mason, Muskegon, Newaygo, Oceana, Osceola, and Ottawa. Northern Central—Isabella, Mecosta, and Midland. Central—Barry, Clinton, Eaton, Genesee, Gratiot, Ingham, Ionia, Livingston, Montcalm, and Shiawassee. Bay and Eastern—Bay, Huron, Lapeer, Saginaw, Sanilac, St. Clair, and Tuscola. Southwestern—Allegan, Berrien, Cass, and Van Buren. Southern Central—Branch, Calhoun, Hillsdale, Jackson, Kalamazoo, Lenawee, St. Joseph, and Washtenaw. Southeastern—Macomb, Monroe, Oakland, and Wayne.

All these divisions, except the three central, are bordered on at least one side by water, but there is great diversity in the relative position of the land and water. The death-rate from all causes, and the proportion of the deaths from each class of causes to the total from all specified causes, in each of these divisions, is here shown:

EXHIBIT C.

Percentage of Deaths, from all causes, to Population, and Per Cent of Deaths from each Class of Causes to Deaths from all Specified Causes, for the State, and for eleven Geographical Divisions of the State, during the year 1869.

STATE AND GEOGRAPHICAL DIVISIONS.	Per cent of all Deaths to Pop- ulation in 1870.	Class I—Zymot- ic Diseases.	Class II—Con- stitutional Diseases.	Class III—Local Diseases.	Class IV—De- velopmental Diseases.	Class V—Vic- lent Deaths.
State.....	.775	81.95	22.05	29.68	10.85	5.95
Upper Peninsula Division.....	.881	40.72	10.56	25.83	12.67	10.40
Northwestern ".....	.882	37.09	17.74	28.22	8.06	8.06
Northern ".....	.914	28.88	15.55	37.77	11.11	6.66
Northeastern ".....	.795	44.18	11.68	11.68	20.98	11.68
Western ".....	.778	34.64	16.60	32.94	10.58	5.22
Northern Central ".....	.706	36.47	28.52	28.52	8.23	8.23
Central ".....	.726	30.02	25.41	30.23	8.79	5.51
Bay and Eastern ".....	.799	36.18	19.68	25.04	11.92	7.15
Southwestern ".....	.689	31.88	24.43	30.19	7.72	5.75
Southern Central ".....	.685	29.11	24.80	31.51	8.33	6.17
Southeastern ".....	.942	30.77	21.52	29.64	18.28	4.82

There is here shown to have been during the year 1869 no very marked difference in the mortality from all causes in these several divisions. Between the one having the greatest and the one having the least mortality, there was, however, a difference of .257 of one per cent, or a little less than twenty-six in ten thousand.

In calculating the percentage of each class, the deaths from specified causes only were used. The number of such deaths in the State was 7,863, as will be seen at the head of Table XV. The percentage of deaths from each class to this whole number in the State is first given in Exhibit C. It will at once be seen that in the Upper Peninsula the proportion of the several classes was in marked contrast to that of the whole State,—the proportion of zymotic diseases being about 9 per cent greater

than the average; of constitutional diseases, about one-half the average; of local diseases, about 4 per cent less; developmental diseases, about 2 per cent more, and of violent deaths, nearly twice the average in the State. The division most dissimilar to the average was the Northeastern, where, as will be readily seen from the exhibit, there was no correspondence whatever with the rest of the State in any class of diseases.

The facts appear to be demonstrated that were anticipated when these divisions were planned, viz: That, as the climatic and other conditions were different in each division, the apparent causes of mortality were different, and there is a certain correspondence of the results in localities having similar conditions. Although the task is a long one, and only a glimpse is given here, the way is perfectly plain by which we may, if we choose, search out the localities where the least number die from any given disease, and those suffering from that disease may thus be enabled to seek the most favorable places. Not only this, but the conditions existing in situations where the greatest number of deaths occur from given diseases may be ascertained, and possibly controlled, or at least avoided. For instance, we find that in the Upper Peninsula in 1869 the proportion of deaths from constitutional diseases, such as cancer, consumption, scrofula, etc., was only about one-half the average for the State; while, on the other hand, the proportion of such diseases as measles, scarlatina, typhoid fever, dysentery, and cholera infantum exceeded the average. This is a favorable showing for the Upper Peninsula, so far as the natural conditions are concerned, for a great proportion of the deaths from this latter class of diseases might, with proper knowledge and effort, be prevented. The excess of violent deaths was probably connected with the occupations of the people, and need not affect those who go there for other than mining or dangerous employments. Whether or not this was an exceptional year remains to be seen. To which of the diseases in each class was due the reduction or increase of its proportion, there does not remain time to examine; but the table includes the data by means of which the facts can be determined, and the manner of doing this, by percentages and comparisons, has been indicated.

TABLE XVI—CAUSES OF DEATH—ALPHABETICAL ARRANGEMENT.
*Exhibiting by Sex, by Months, and by Age, in periods of years, the Registered Number of Deaths from Specified Causes during the year 1869 (Still Births included).**
 AGGREGATE.

MONTHS.													DEATHS.			AGES.															
SEX.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	SEX.			Totals.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.		
														Males.	Females.	Unknown.															
Totals....	486	561	761	712	652	680	687	1066	1194	874	656	536	45	9145	3916	415	272	374	881	619	520	548	688	500	264	204					
Male.....	227	317	405	366	344	331	359	768	621	446	349	438	26	4796	2117	898	131	165	260	289	275	313	366	291	148	106					
Female..	267	244	355	345	307	296	328	498	567	424	337	393	18	4306	1768	176	141	206	521	330	245	231	272	209	121	91					
Unknown	2	8	1	1	1	3	6	2	6	4	5	9	48	95	1	7				

* See Note which follows this Table.

TABLE XVI—CONTINUED.

MONTHS.													DEATHS.		CAUSES OF DEATH.	AGES.															
SEX.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	SEX.		Total.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.			
														Males.															Females.	Unknown.	
Females.								1		2	2	2			7					1	4	1									
Males.	1	1	1	1	1	1	1		1		2	1		10						1	8	2	1	1	1						
Females.	1								2		1	1			5																
Males.											1			1					1		8			1							
Females.																															
Males.			2					1				1		4																	
Females.				1	1						1				8					1	2										
Males.			1	1										2																	
Females.																															
Males.						1								1																	
Females.																															
Males.	3	1	1	4	2	2	6	2	4	4	8	8		40				2	2					8	5	7	13	6	1	1	

Females...	4	1	1	4	8	1	2	2	3	5	25	65 Apoplexy.....	1	1	1	8	4	4	6	2				
Males...				1							1	Arthritis.....		1										
Females...												".....												
Males...											1	Asphyxia.....				1								
Females...												".....												
Males...	1	2		4	1		2	2	2	8	20	Asthma.....				2	8	10	4	1				
Females...		1					1		2		4	".....	24			1	1	1		1				
Males...		1	1	1	1	4	2	6	8	1	28	Bowel Disease.....	18	1	1	2	8	1		2				
Females...	1	2	1	1	1	2		8	4	1	22	".....	45		2	8	2		4	8				
Males...	1									2	5	Bronchitis.....	2		2		1							
Females...		2	1				1	2			6	".....	11		8		1		1					
Males...	8	6	7	13	7	8	7	11	16	11	111	Brain Disease.....	79	7	4	2	2	8	5	2	4	1	2	
Females...	6	2	13	8	9	5	10	12	12	4	98	".....	204		6	4	8	5	1	4	2		2	
Males...		1	1							1	8	Brain Softening.....	1		1					1				
Females...								1			1	".....	4		"									
Males...	2	2		4	2		2	1		2	22	Burns and Scalds.....	21		1									
Females...	1		5	8	4	2	5	6	4	2	7	".....	68		2	10	2	2		2		1		
Males...	1	2	2	8	5	7	6	2	5	6	4	Cancer.....	2	1	1	2	2	4	9	9	8	6	8	
Females...	2	1	6	5	5	6	8	2	7	10	11	".....	118		4	1		8	6	7	18	15	8	1
Males...									1		1	Carbuncle.....							1					
Females...												".....	1											
Males...	13	11	11	10	9	12	10	22	13	12	5	Casualty.....	17	8	6	15	25	24	14	6	8	2	2	

TABLE XVI—CONTINUED.

MONTHS.													DEATHS.		CAUSES OF DEATH.	AGES.												
Sex.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Males.		Females.	Unknown.	Total.										
	Sex.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		Males.	Females.	Unknown.	Total.									
Females.	8	2	1	1	3	5	5	1	2	3	1			27		176	Casualty.....	6	8	1	1	3	1	4	2	8		
Males.	1	1	1	1									4				Catarrh.....	1						2	1			
Females.				1	1									2		6	"				1			1				
Males.	9	17	12	18	9	6	15	19	9	5	8		122				Cephalitis.....	82	9	4	5	3	4	2	5	8		
Females.	8	10	10	7	2	2	5	11	19	11	5	11	1	104		226	"	64	14	4	6	5	4	4	1	2		
Males.													1				Chicken Pox.....	1										
Females.							1	1						2		8	"											
Males.																	Childbirth.....											
Females.	4	7	11	12	5	15	9	10	15	6	8	16		118		118	"			7	60	85	18	1		2		
Males.																	Chlorosis.....											
Females.					1										1		1	"				1						
Males.						1	6		1					5			Cholera.....	4					1	2	1			
Females.														1		9	"											
Males.	1					1	9	28	14	6	2		1				Cholera Infantum.....	60										

	2	1	1	0	19	19	5	1	48	108	Cholera Infantum.	48	
Females.													
Males.				5	6	4	1		16		Cholera Morbus.	6	1 9 2 1 8
Females.					4	1			5	21	"	1	1 1 2
Males.	1	1	1					1	5		Cold.	4	1
Females.			1	1	1		2	1	5	10	"	2	1 1 1
Males.					1	1			2		Colic.	2	
Females.		1	1	1	1	2			5	7	"	8	1 1
Males.		1	1	1					8		Colic Billous.		1 1 1
Females.				1					1	4	"		1
Males.	1	4	8	2	4	6	9	2	8	18	Congestive Chills.	2	4 8 2 8 1 5 1 1
Females.	1	2	4	2	4	4	14	1	5	7	"	11	4 2 1 5 8 1 5 5 4 1 1
Males.									48		Constipation.		
Females.							1		1	1	"		1
Males.	28	38	44	54	57	51	44	46	58	46	Consumption.	56	18 6 84 118 96 69 64 55 84 7 12
Females.	34	81	52	58	65	59	52	59	78	68	"	54	2 26 62 200 117 73 53 47 26 2 7
Unknown								1		1	"	1	
Males.	5	4	1	5		1	8	5	6	8	Convulsions.	34	2 1 1 1
Females.	2	4	2	1	8	1	4	6	2	4	"	28	2 2 2
Males.											Convulsions Puer.		
Females.	1		1							2	"	2	
Males.	2			1	1	8	1	2	4	1	Cramps.	17	1
Females.	1	4	1	2	2	2	2	1	8	16	"	18	1 2

Females...	1	...	1	...	1	1	1	1	1	6	25 Diabetes	...	1	...	2	1	1	...	1	...	
Males...	4	...	5	1	8	21	44	45	14	4	103	Diarrhea	145	4	1	2	1	1	8	4	1
Females...	2	1	2	8	4	14	48	86	18	4	5	1	183	...	...	2	1	5	8	2	1
Males...	1	1	...	1	1	1	2	1	1	1	11	Diarrhea Chronic	...	...	...	1	1	1	8	5	...
Females...	...	...	...	...	1	1	1	...	...	...	...	16	...	...	2	...	2	1	...	...
Males...	8	2	2	8	8	2	8	4	8	5	6	49	Diphtheria	29	18	2	4	1	...	...
Females...	1	2	7	8	5	2	2	1	6	4	8	4	89	...	18	11	5	2	1	2	1
Males...	1	10	11	7	8	8	10	10	12	15	9	14	110	Dropsy	17	9	8	8	5	2	11
Females...	6	8	10	12	6	11	20	18	10	10	17	11	186	...	14	2	6	25	14	16	15
Males...	2	2	2	8	9	14	11	14	8	2	8	6	76	Drowned	12	18	11	7	8	9	8
Females...	1	...	2	4	1	4	8	1	1	2	1	...	96	...	6	1	2	4	8	4	...
Males...	2	2	2	8	4	5	10	88	52	19	1	8	186	Dysentery	118	5	1	1	1	2	8
Females...	2	...	2	2	1	2	30	44	12	2	1	1	99	...	74	2	2	1	2	1	8
Unknown	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...
Males...	1	...	1	...	1	1	1	...	...	...	4	...	...	...	...	...	...	2	1	...	...
Females...	1	1	...	...	1	...	...	...	...	...	8	...	7	...	...	...	...	8	...	...	...
Males...	5	6	4	6	2	4	8	11	5	1	6	64	Enteritis	24	4	8	5	5	2	4	5
Females...	4	8	2	6	2	5	2	11	5	8	6	1	55	...	80	2	2	5	4	8	8
Males...	1	1	1	8	1	...	...	...	...	...	7	...	...	...	2	...	1	...	2	2	...
Females...	2	...	...	...	1	1	...	...	...	...	1	...	12	...	...	2	1	...	2	...	...
Males...	8	2	2	2	5	4	2	6	1	6	8	4	40	Erysipelas	12	8	4	8	2	1	8
Females...	4	1	1	1	2	2	1	8	1	2	4	7	29	...	11	...	1	8	1	1	8

TABLE XVI—CONTINUED.

MONTHS.													DEATHS.			CAUSES OF DEATH.	AGES.												
Sex.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Sex.				Total.												
													Unknown.	Males.	Females.			Unknown.											
Males	1								1					2			Fatty Degeneration									1	1		Unknown
Females																	"												80 and over
Males	5	7	7	8	4	7	5	23	24	21	8	8	1	183			Fever	64	7	5	8	12	9	9	5	2	3		
Females	4	4	5	8	8	7	12	12	18	10	6	14	1	115			"	61	8	4	8	12	7	4	2	1	1	1	6
Males	2	1	1	1	2	1	1	3	8	2	2			18			Fever, Billious	6	3		3				1	3	1	1	
Females			1		1	1	1	4	6	6	2	1					"	4	2	4	4	2	1	1	1	3		1	
Males	1	1	1	2	1	1	3	4	4		3	1		20			Fever, Intermittent	14	4								2		
Females	1		1	1	1		8	7	4	1			1	19			"	8	1	1	3		1	1	1	1	1	1	
Males						1	1	1	1					3			Fever, Remittent			1			1		1				
Females							1	1						2			"				1								
Males			1	2										8			Fever, Spotted	1	1	1									
Females				2										3			"	1		1									
Males	8	10	19	11	16	8	10	25	36	40	25	20		323			Fever, Typhoid	83	8	16	26	51	21	15	17	26	12	1	2
Females	9	8	13	7	11	6	11	26	40	39	20	18		209			"	17	15	28	33	45	22	14	15	16	5		1

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Females....		1		"	1		4 Hydatidus.....				1
Males....	1	1	1		8		Hydrocephalus.....			8	
Females..	1	1	1	1		5	"			5	
Males....				1		1	Hydrothorax				1
Females..	1	1		1		4	"				1
Males....	1	4	8	8	4	82	Infantile.....			82	
Females..	1	1	8	2	1	14	49 "			14	
Unknown				1	1		"			8	
Males....	6	4	5	8	7	48	Inflammation.....		2	2	1
Females..	2	8	8	5	4	52	"		2	11	8
Males....	1					1	Influenza.....			1	
Females..	1	1				2	"			2	
Males....	4	2	2	1	1	15	Insanity.....		1	2	8
Females..	1			1	1	4	"			2	2
Males....	1	1	1	1	2	8	Intemperance.....			8	1
Females..	1					2	"		1	1	
Males....				1	1	1	Intussusception.....			1	
Females..						1	"				1
Males....	1	2	1	1	2	8	Jandice.....		2	1	1
Females..	1	1			1	8	"		1		1
Males....	8	2	1	2	4	22	Kidney Disease.....		1	8	1
Females..	1	2		8		7	"		1	2	1
Males....						1	Laryngitis.....				1

TABLE XVI—CONTINUED.

MONTHS.													DEATHS.		CAUSES OF DEATH.	AGES.												
SEX.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	SEX.			Total.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
													Unknown.	Females.															Males.
Females.	1									1					2	8	Laryngitis.	1							1			
Males.							2	1						8			Lightning.		1		1							
Females.									1						1	4	"							1				
Males.	1	2	3	3	1	2			2	5	2	2		80			Liver Disease.	7	1	1	1	7	8	6	4			
Females.	1	1	3	4	1	1	1	2	2		1			17		47	"	2	1	8	2			7	2			
Males.																	Liver, Enlargement of.											
Females.															1	1	"											
Males.	2	0	15	10	6	3	8	4	6	2	2	8		67			Lung Disease.	84	1	1	8	4	6	7	5	4	2	
Females.	1	3	5	5	8	5	2	3	4	8	7	4		45		112	"	21	8	1	2	4	8	2	8	1		
Males.																	Malformation.											
Females.															2	2	"	2										
Males.	0	19	18	4	11	0	8	8	4	2	4	2		84			Measles.	56	19	1	8	8	1		1			
Females.	5	6	10	12	6	5	4	1	1	2	2	8		63		147	"	48	4	1	8	4	1	1	1			
Males.												1		1			Meningitis.	1										

Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1</
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TABLE XVI—CONTINUED.

MONTHS.													DEATHS.		CAUSES OF DEATH.		AGES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Females.	1									1	1			8	8	8	Ovarian Tumor.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

[illegible]

DEATHS.

Males	1	1	1	1	1	1	2	2	2	8	18	Suffocation	18
Females	1	1	2	1	1	1	1	1	1	8	11	"	11
Males	2	1	1	1	1	1	2	1	8	1	16	Suffocation	1
Females	1	1	1	1	1	1	2	1	1	7	7	"	2
Males	1	1	1	1	1	1	1	1	1	2	2	Suffocation	1
Males	1	1	1	1	1	1	1	1	1	1	1	Suffocation	1
Females	1	1	1	1	1	1	1	1	1	1	1	"	2
Males	1	1	1	1	1	1	1	1	1	8	8	Tubercles Mesenterica	2
Females	1	1	1	1	1	1	1	2	1	5	5	"	1
Males	1	1	2	2	2	2	16	8	8	40	40	Teething	89
Females	2	1	2	8	9	14	9	8	1	45	45	"	45
Males	1	1	1	1	1	1	1	1	1	8	8	Tetanus	2
Females	1	1	2	2	2	2	1	1	1	2	10	"	1
Males	1	1	2	1	1	1	2	1	1	11	11	Throat Disease	6
Females	2	1	2	1	2	2	4	4	9	9	20	"	4
Males	1	1	1	1	1	1	1	1	8	8	8	Thrush	8
Females	1	1	1	1	1	1	1	1	2	2	2	"	2
Males	1	1	2	1	1	1	1	1	4	4	4	Tumor	1
Females	1	1	2	1	2	2	2	2	18	18	17	"	1
Males	1	1	1	1	1	1	1	1	1	1	1	Turn of Life	1
Females	1	1	1	1	1	1	1	1	7	7	7	Ulcer	1
Males	1	1	1	1	1	1	1	1	2	2	2	"	2
Females	1	1	1	1	1	1	1	1	2	2	2	"	2

THIRD REGISTRATION REPORT.

TABLE XVI—Continued.

[illegible]

NOTE.—Still-births are included throughout this Report in every case when speaking of deaths from all causes, or all specified causes. Abortions are probably not reported as still-births. It is believed to be mainly those who have reached about the full term, and in many cases so reported the child was rarely born alive, but with not sufficient vitality to maintain a separate existence. The returns for 1869 show several cases reported still-born, where, in another column, the age is given as a few hours, or even one day in some cases. But if they were correctly reported born dead, except for some cause they would still be living, and while the study of the causes of death by the professional man can be accomplished as well in this way as in the other, there seems no good reason for allowing them to disturb the harmony, and confuse or mislead the general reader by being counted in one place and excluded in another.

Table XVI contains so many things worthy of study and remark, that no attempt will be made to do justice to the subject. Certain diseases seem to be confined to one period of life, and some to others; some are more fatal at one season of the year, and others at different seasons. Aside from the diseases known to be necessarily peculiar to one sex, there are others in which one or the other sex suffers much the most severely, the reasons for which remain to be ascertained. A few of the specified causes are far from specific, but are given as possibly in a slight degree better than unknown. This is the case with "Inflammation," which, of course, gives no very definite idea of the cause of death. Many reported "Congestion," etc., help to swell the number printed "Unknown," which amounts to 1,143, or 12.49 per cent of the whole number of deaths. It is to be hoped that this proportion may, in future, be greatly reduced as the supervisors become more familiar with the subject and interested in the work.

The most important of the causes of death specified in this table will receive some attention in connection with the tables following.

TABLE XVII.

Order of Succession of Fifteen Principal Causes of Death, showing Number of Deaths from Each Cause, Percentage to Population, Persons Living to One Death, and Percentage to Deaths from All Causes, for the year 1869.

FIFTEEN CAUSES PRODUCING GREATEST MORTALITY IN 1869.	Number of Deaths.	Percentage to Population, 1870.	Persons Living to One Death.	Percentage to Deaths from All Causes.
1. Consumption.....	1,288	.104	956	18.48
2. Typhoid Fever.....	487	.087	2,098	4.77
3. Pneumonia.....	427	.086	2,762	4.66
4. Old Age.....	310	.026	3,804	3.23
5. Diarrhea.....	295	.025	3,997	3.22
6. Scarletina.....	252	.021	4,680	2.75
7. Heart Disease.....	252	.021	4,680	2.75
8. Fever.....	248	.021	4,755	2.71
9. Dropsy.....	246	.020	4,794	2.68
10. Dysentery.....	236	.020	4,997	2.58
11. Cephalitis.....	226	.019	5,218	2.47
12. Brain Disease.....	204	.017	5,879	2.28
13. Apoplexy and Paralysis.....	185	.015	6,375	2.02
14. Casualty.....	176	.014	6,701	1.92
15. Whooping Cough.....	153	.013	7,465	1.73
Totals.....	4,885	.414	241	53.41
All Causes.....	9,145	.775	128	100.00

Four thousand eight hundred and eighty-five deaths, or a little more than one-half of all reported, were said to have resulted from the fifteen causes named in Table XVII. Consumption heads the list, as usual, and caused the death of as many as resulted from the three next highest causes put together, and rather more than one-eighth of all the deaths reported. Besides the several facts shown in this table, the subject will be passed on for further examination.

Typhoid Fever caused the next highest number, but only a little more than one-third of that charged to consumption.

Old Age is fourth in the order, and it would seem to be cause for congratulation that, while the death-rate from all causes was low, so large a proportion of the deaths were due to the natural decay of old age. Theoretically, with man's superior wisdom and capabilities for ascertaining the conditions essential to life, and his power of control over those conditions in his immediate surroundings, all other modes of death ought, perhaps, to be prevented. Practically, the facts are, that during the year 1869 only a little over three per cent of all the deaths in the State were attributed to this cause.

Diarrhea and Dysentery will receive additional attention. The geographical distribution of each disease in this State during the year 1869, will be seen by studying Exhibit D.

EXHIBIT D.

Number of Deaths from Diarrhea and Dysentery in Eleven Divisions of the State, Persons Living to One Death from each Disease, and Per Cent to Deaths from All Causes, during the year 1869.

STATE AND GEOGRAPHICAL DIVISIONS.	DIARRHEA.			DYSENTERY.		
	Number of Deaths, 1869.	Persons Living to One Death.	Per Cent to Deaths from All Causes.	Number of Deaths, 1869.	Persons Living to One Death.	Per Cent to Deaths from All Causes.
State.....	296	8,997	8.22	286	4,997	2.58
Upper Peninsula Division.....	5	6,735	1.68	7	4,525	2.85
Northwestern ".....	5	8,608	3.14	7	2,574	4.40
Northern ".....	0	a7,541	0.00	1	7,541	1.44
Northeastern ".....	9	782	16.07	2	8,519	3.57
Western ".....	58	2,119	6.02	28	4,011	3.18
Northern Central ".....	0	a18,445	0.00	6	2,240	6.81
Central ".....	16	14,289	.96	42	5,448	2.52
Bay and Eastern ".....	38	3,956	3.16	38	4,555	2.74
Southwestern ".....	9	18,010	1.11	51	2,295	6.21
Southern Central ".....	20	18,901	1.05	36	7,667	1.90
Southeastern ".....	140	1,586	6.90	28	9,351	1.13

a Persons living—no deaths reported.

There is shown to have been a very great difference in the mortality from Diarrhea in the several divisions, ranging from one death to fourteen thousand inhabitants, up to one death to every seven hundred and eighty-two persons,—the proportion to all deaths, from less than one per cent, in the Central, up to sixteen per cent in the Northeastern division. The Central division, the Southwestern, and the Upper Peninsula, had much less than the average mortality from this disease. The Northeastern, Southeastern, and Western divisions had more than the average mortality, in the order named. The counties included in each division can be seen by turning to page 150.

From Dysentery, the mortality was more uniformly distributed than from Diarrhea. This disease proved most fatal in some places where Diarrhea was least so. The order of greatest proportional mortality in divisions having more than the average, was, Northern Central, Southwestern, Northwestern, Northeastern, and Western. There was less than the average proportion of deaths from Diarrhea in the first two of these divisions. The least number of deaths from Dysentery occurred in the Southeastern, Southern Central, Northern, and Central divisions, in the order named.

The three Central divisions of the State were most exempt from both diseases, except that in the Northern Central the greatest mortality from Dysentery occurred, but where there was not a death reported from Diarrhea.

Fever, Dropsy, and Brain Disease are not very definite causes of death. The number opposite the first named should, if it were possible, be distributed through the various diseases of that nature. The second may, perhaps, cause death, although it is not properly a disease, but an indication and result of disease of the heart, liver, or kidneys; while the third mentioned may include any or all of the diseases affecting the brain. But nothing more definite can be stated of them here. The duty of obtaining the specific information rests with those

who first collect the statistics. Apoplexy and Paralysis were, for this table only, counted together, because the latter is generally a result of the former.

Casualty includes those reported as follows: Killed by falling trees; by falling from wagon; in a well; by a fall; by horses, cows, and mules; by bursting of millstone; by circular saw; between logs; in mine; by caving of well; boiler explosion; explosion of fire-works; by whirlwind. And one from each of the following: Choked by tin whistle; over-lifting; over-work; drinking ice water; snake bite, and bee sting. This last person was over one hundred years old, and is included in Table VIII.

It is only by percentage, or some proportion of the population, that a correct idea of the death-rate can be obtained. Tables XVIII and XIX show this in the State, divisions, and counties, for all causes, for each of the four causes producing the greatest number of deaths during the year 1869, and for the extremely old and young.

Without reflection, it might be thought that the number of deaths from old age, and of those aged seventy and over, would closely correspond, but it will be seen that less than one-half of the deaths at seventy and over were attributed to old age. These two headings were placed side by side to facilitate comparisons.

The two sets of columns of deaths of old and young were put in partly to show the influence of general causes of death in the several divisions and counties, with the impression that such unfavorable conditions would in this way be sooner detected, as they would prove fatal to those least able to withstand them, and thus include a greater proportion of persons at the two extremes of life.

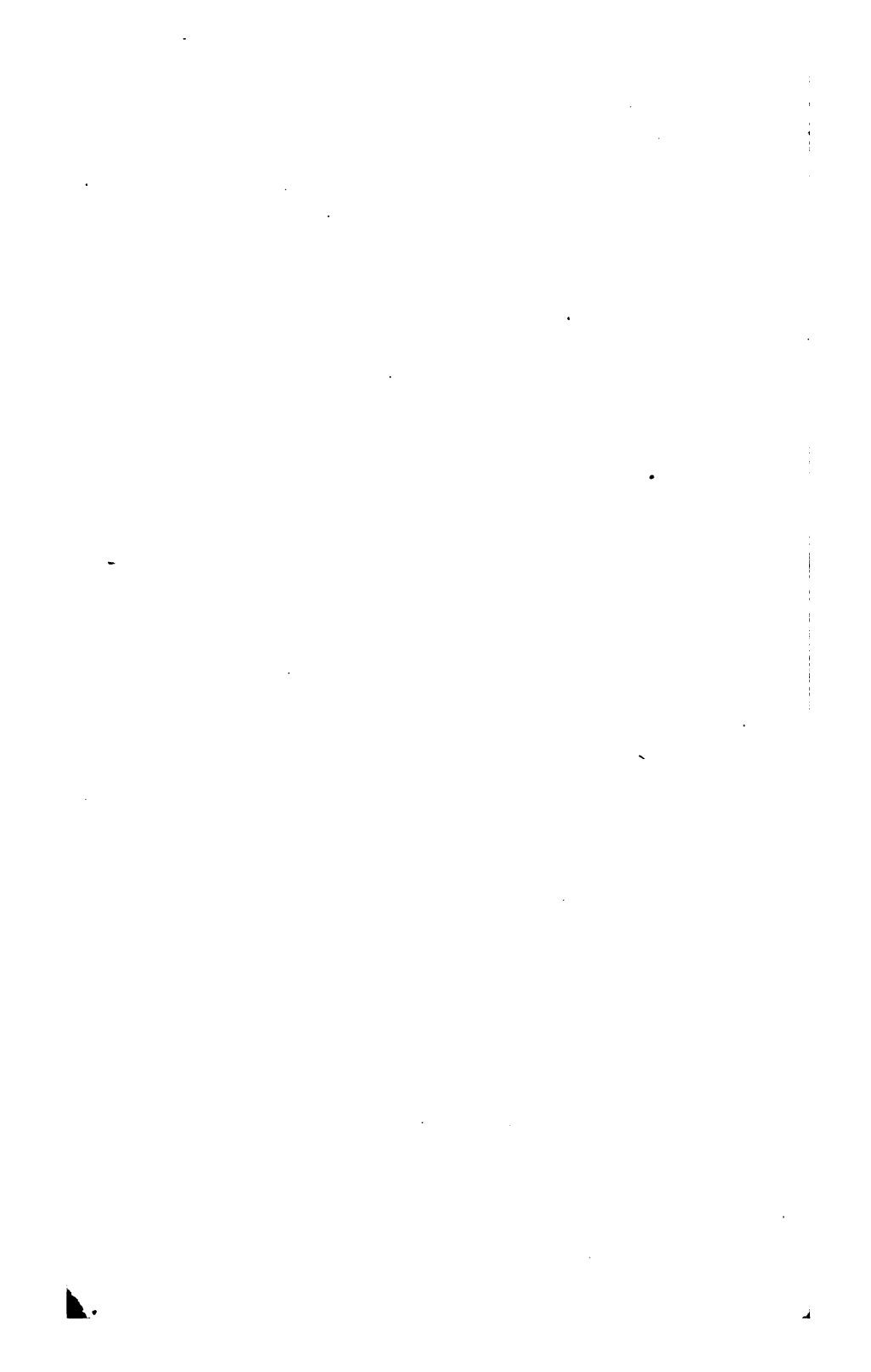
The order of greatest mortality from Consumption in the divisions of the State was, Southeastern, Central, Southern Central, Southwestern, Northwestern, Northern Central, Bay and Eastern, Northern, Western, Northeastern, and Upper

Peninsula. The order from Pneumonia was, Upper Peninsula, Northern, Western, Southwestern, Southeastern, Northwestern, Central, Southern Central, Bay and Eastern, Northern Central, and Northeastern. The opinion has prevailed to some extent, and, without the knowledge gained through statistics it might be expected, that when the conditions are such as to cause deaths from Pneumonia (inflammation of the lungs), there is greater danger from Consumption; but it will be seen that between these two diseases there was a correlation of quite a different kind; that in several divisions where there was more than the average mortality from Pneumonia, there was less than the average from Consumption, and *vice versa*. This correlation holds true in five of the eleven divisions, in one it is equal, and in five it does not hold. In the Southeastern division, where the greatest proportion of deaths resulted from Consumption, the per cent of deaths from Pneumonia was only .038, while the average was .036. An extremely slight reduction would have made the correlation hold in this case. In the Central division, where the next greatest number of deaths occurred from Consumption, the per cent of deaths from Pneumonia was precisely the average; so that the least possible reduction of the proportion would have established the correlation in a majority of the divisions. In general terms, and for all practical purposes, it may be considered as so far established. The following questions, then, come fairly before us: Are the conditions which tend to cause death from these two diseases similar, as has been by some supposed? Are they simply different, or are they in some way opposite or antagonistic? These statistics, if properly collected, studied, and compiled, will answer these important questions definitely. So far as can well be done in one year, the answers are given in this report, as regards the conditions of age, sex, season, and geographical distribution. The last subject has been examined by divisions in Table XVIII, and can be studied by counties in Table XIX. Of the twenty-one counties in which the percentage of deaths from Consumption was above the average in the State, ten were below, and eight were above the average from Pneumonia, two were equal, and

*Consumption, Pneumonia, Typhoid Fever, Old Age,
and of those Aged as stated to Deaths from all Causes,*

OLD AGE.			ALL AGED 70 AND OVER.				ALL AGED UNDER 5.			
Per Cent to Population.	Persons Living to one Death.	Per Cent to Deaths from all Causes.	No. of Deaths.	Per Cent to Population.	Persons Living to one Death.	Per Cent to Deaths from all Causes.	No. of Deaths.	Per Cent to Population.	Persons Living to one Death.	Per Cent to Deaths from all Causes.
.026	8,904	8.88	764	.064	1,548	8.24	8,915	.881	801	42.81
.008	11,225	1.08	8	.008	11,225	1.08	190	.564	177	68.97
.011	9,008	1.25	10	.055	1,801	6.28	91	.505	196	57.28
.018	7,541	1.44	6	.079	1,256	8.69	40	.584	188	57.97
.042	2,846	5.85	8	.042	2,846	5.85	82	.454	219	57.14
.024	4,011	8.18	58	.051	1,986	6.59	411	.865	270	46.75
.029	3,861	4.21	5	.087	2,689	5.26	85	.260	884	86.94
.025	3,857	8.54	151	.066	1,513	9.08	628	.272	866	87.42
.023	4,175	2.99	59	.089	2,546	4.90	567	.877	265	47.17
.025	3,908	3.71	76	.064	1,589	9.41	341	.291	843	42.25
.022	4,881	3.88	207	.074	1,888	10.94	578	.205	477	80.56
.087	2,655	8.99	186	.066	1,156	9.16	987	.485	229	46.20





OLD AGE.				ALL AGED 70 AND OVER.				ALL AGED UNDER 5.			
Percent. to Pop- ulation.	Persons living, to one Death.	Percent. to deaths from all causes.	No. of Deaths.	Percent. to Pop- ulation.	Persons living, to one Death.	Percent. to deaths from all causes.	No. of Deaths.	Percent. to Pop- ulation.	Persons living, to one Death.	Percent. to deaths from all causes.	No. of Deaths.
.021	4,593	8.41	19	.059	1,692	9.26	1	.181	760	100.00	84
.032	3,111	8.33	1	.032	3,111	8.33	23	.739	185	40.97	28
.013	7,356	1.96	7	.031	3,152	4.57	8	.331	301	80.00	62
.012	7,950	1.72	5	.031	3,180	4.31	49	.308	324	40.52	14
.028	3,510	4.65	20	.091	1,092	10.00	14	.641	156	70.00	94
.011	8,748	1.65	16	.060	1,640	8.83	67	.255	372	43.72	94
.019	5,167	2.58	26	.071	1,391	9.59	100	.276	361	37.01	94
.018	5,276	4.00	15	.071	1,406	7.50	2	.445	213	47.00	2
.045	2,197	11.11	1	.057	1,724	10.00	2	.116	862	20.00	3
.026	3,814	3.50	15	.045	2,197	11.11	8	.137	732	33.33	67
.015	6,298	2.72	9	.065	1,525	8.77	77	.294	341	39.18	77
.035	2,826	5.26	4	.381	402	10.00	27	.305	327	39.59	27
.022	4,443	2.38	4	.097	1,027	14.47	76	.229	44	67.50	76
.011	8,929	2.44	6	.090	1,110	9.52	18	.405	246	33.33	31
.028	3,546	4.09	29	.033	2,943	7.39	81	.174	543	42.85	78
.033	3,017	5.88	3	.091	1,093	13.03	75	.245	406	35.13	80
.035	2,809	8.89	17	.089	3,017	5.88	80	.576	173	65.04	17
.018	5,535	2.12	12	.067	1,487	7.85	92	.157	532	33.33	92
.063	1,583	8.00	9	.043	2,306	5.10	96	.363	274	39.87	8
.022	4,479	3.57	15	.063	1,583	8.00	12	.292	288	40.55	70
.022	4,510	3.68	18	.049	2,004	8.29	193	.193	373	42.85	111
.018	5,344	2.16	23	.071	1,389	8.80	121	.845	288	40.07	121
.025	3,871	3.86	39	.065	1,525	9.82	49	.240	415	36.01	49
.018	5,898	3.20	9	.042	2,372	7.20	228	.435	183	56.81	25
.021	4,576	2.27	3	.065	1,525	6.81	55	.546	536	31.02	43
.019	5,074	3.28	54	.074	1,342	12.40	76	.156	447	32.32	81
.031	3,223	4.58	20	.103	966	15.26	81	.222	361	32.47	76
.050	1,972	5.98	36	.190	739	15.38	275	.510	195	64.56	81
.013	7,491	1.32	2	.016	6,074	2.08	88	.587	170	67.17	16
.030	3,266	2.94	2	.013	7,491	1.32	16	.489	204	43.62	16
.035	2,822	4.76	4	.061	1,633	5.88	16	.283	352	50.00	5
.030	3,321	4.00	1	.078	1,411	9.52	5	.264	378	28.00	7
.058	1,717	6.61	36	.080	3,321	4.00	94	.210	474	38.84	27
.052	1,937	8.23	13	.190	737	14.87	71	.378	292	31.76	68
.026	3,724	2.89	4	.095	1,043	15.29	37	.199	502	64.91	63
.013	7,294	1.75	4	.026	3,724	2.89	63	.476	209	28.21	42
.046	2,152	7.88	84	.054	1,823	7.01	17	.507	172	60.00	6
.013	7,222	1.42	2	.083	1,202	14.10	17	.166	601	51.51	6
.038	2,895	3.03	1	.027	3,611	2.85	42	.581	171	51.51	17
.030	3,332	3.37	13	.088	2,895	3.03	6	.586	170	60.00	118
.033	2,992	2.92	18	.048	2,050	5.55	249	.225	442	50.42	30
.034	2,907	7.35	5	.048	2,161	4.05	30	.690	156	56.08	52
.024	4,212	3.24	19	.084	2,912	7.35	30	.305	485	44.11	52
.016	6,139	2.00	10	.091	1,097	12.33	70	.249	401	33.76	34
.044	2,222	6.00	23	.027	3,683	3.34	189	.377	265	46.48	70
.021	4,438	3.03	9	.086	1,159	11.50	34	.262	880	35.00	69
.031	3,203	4.81	22	.065	1,523	9.09	67	.247	403	34.34	67
.021	4,605	3.61	38	.076	1,310	11.75	161	.289	417	26.90	8
.026	3,721	2.43	80	.091	1,090	15.26	586	.170	52.54	60.00	8
				.067	1,488	6.10	246	.400			





the remaining one had not population enough to show. In 27 counties the proportion of deaths from Pneumonia was greater than the average for the State; of this number, nineteen had less than the average mortality from Consumption. This subject has been studied in four slightly different ways,—of counties having more than the average mortality from Consumption, what number had less than the average from Pneumonia; of those having less than the average from Consumption, what number had more than the average from Pneumonia; and in the same ways, taking Pneumonia first. The result is, that of the fifty-nine counties returned, in ten the conditions were such that the questions could not be positively answered,—in some cases the percentages were equal to the average for the State, and in the others the population was small, and no deaths reported from one or the other disease. Of the remaining forty-nine counties, the correlation holds in twenty-nine, and in twenty it does not.

EXHIBIT E.—CORRELATION OF
*Number and Percentage of Deaths of Males and Females, at
different Periods of Age, from Consumption.*

AGE.	NUMBER.				Percentage of whole number Deaths from consumption.	PERCENTAGE OF THE SEXES. (Unknown sex excluded.)			
	Males.	Females.	Unknown.	Total.		Males.	Females.	Excess.	
								Males	Fe- males
Under 5.....	56	54	1	111	9.06	50.90	49.09	1.81	-----
5 to 10	18	2	-----	15	1.21	86.66	13.33	73.66	-----
10 to 15	6	26	-----	32	2.59	18.75	81.25	-----	62.50
15 to 20	84	62	-----	96	7.78	85.41	64.58	-----	29.17
20 to 30	118	200	-----	318	25.38	36.10	68.89	-----	27.79
30 to 40	96	117	-----	213	17.27	45.70	54.29	-----	8.59
40 to 50	69	73	-----	142	11.58	48.89	51.40	-----	2.81
50 to 60	64	53	-----	117	9.48	54.70	45.29	9.41	-----
60 to 70	58	47	-----	105	8.51	55.28	44.76	10.47	-----
70 to 80	34	26	-----	60	4.96	56.66	43.33	13.33	-----
80 and over	7	2	-----	9	.72	77.77	22.22	55.55	-----
Unknown.....	18	7	-----	20	1.62	65.00	35.00	30.00	-----
Total.....	563	669	1	1,233	100.00	45.69	54.30	-----	8.61

CONSUMPTION AND PNEUMONIA.

Number and Percentage of Deaths of Males and Females, at different Periods of Age, from Pneumonia.

AGE.	NUMBER.			Percentage of whole number Deaths from Pneumonia.	PERCENTAGE OF THE SEXES.			
	Males.	Females.	Total.		Males.	Females.	Excess.	
							Males	Fe- males
Under 5.....	124	109	233	54.56	53.21	46.78	6.48	.....
5 to 10.....	6	5	11	2.57	54.54	45.45	9.09	.....
10 to 15.....	4	4	8	1.87	50.00	50.00	.....	.....
15 to 20.....	4	6	10	2.84	40.00	60.00	.....	20.00
20 to 30.....	4	18	22	5.15	18.18	61.91	.....	63.63
30 to 40.....	12	6	18	4.21	66.66	33.38	33.33	.....
40 to 50.....	17	10	27	6.82	62.96	37.08	25.93	.....
50 to 60.....	23	18	41	8.19	62.85	37.14	25.71	.....
60 to 70.....	22	11	33	7.72	66.66	33.33	33.33	.....
70 to 80.....	9	10	19	4.44	47.57	52.42	.....	4.85
80 and over.....	4	.....	4	.98	100.00	.....	100.00	.....
Unknown.....	6	1	7	1.68	85.71	14.28	71.43	.....
Total.....	284	198	427	100.00	54.80	45.19	9.61	.....

EXHIBIT F.—CORRELATION OF
Number and Percentage of Deaths of Males and Females, by
Months, from Consumption.

MONTHS.	NUMBER.				Percentage.	PERCENTAGE.			
	Males.	Females.	Unknown.	Total.		Males.	Females.	Excess.	
								Males.	Females.
January	23	84	---	57	4.62	88.98	61.01	---	23.08
February	38	31	---	69	5.59	55.07	44.92	10.15	---
March	44	52	---	96	7.78	45.88	54.16	---	8.38
April	54	58	---	112	9.08	48.21	51.78	---	3.57
May	57	65	---	122	9.89	46.73	53.27	---	6.55
June	51	59	---	110	8.92	46.86	53.68	---	7.27
July	44	52	---	96	7.78	45.88	54.16	---	8.38
August	46	59	---	105	8.51	48.80	51.19	---	12.39
September	53	78	---	131	10.62	40.45	59.54	---	19.09
October	48	68	---	111	9.00	48.30	51.79	---	13.59
November	34	52	---	86	6.97	39.58	60.46	---	20.98
December	70	65	1	136	11.02	51.85	48.14	3.61	---
Unknown	1	1	---	2	.16	50.00	50.00	---	---
Year 1869	568	669	1	1,238	100.00	45.69	54.80	---	8.61
					8.88				

CONSUMPTION AND PNEUMONIA.

Number and Percentage of Deaths of Males and Females, by Months, from Pneumonia.

MONTHS.	NUMBER.			Percentage.	PERCENTAGE.			
	Males.	Females.	Total.		Males.	Females.	Excess.	
							Males.	Fe- males.
January	16	19	35	8.19	45.71	54.28	-----	8.57
February	34	80	64	14.98	53.12	46.97	6.15	-----
March	42	30	72	16.86	58.98	41.66	16.67	-----
April	34	28	62	14.51	54.38	45.26	8.57	-----
May	19	21	40	9.86	47.50	52.50	-----	5.00
June	9	7	16	8.74	56.25	43.75	12.50	-----
July	6	5	11	2.57	54.54	45.45	9.09	-----
August	18	9	21	4.91	61.95	38.04	23.31	-----
September	10	9	19	4.45	52.63	47.36	5.27	-----
October	8	5	8	1.87	37.50	62.50	-----	25.00
November	21	9	30	7.02	70.00	30.00	40.00	-----
December	26	21	47	11.00	55.81	44.69	10.62	-----
Unknown	1	1	2	.46	50.00	50.00	-----	-----
Year 1869	284	198	427	100.00	54.80	45.20	9.61	-----
				8.88				

The subject can be studied in connection with age and sex in Exhibit E. The order of greatest mortality from these diseases, by periods of age, is very different; placed side by side they agree in only one particular, that of having the least number of deaths during the period of age over eighty years. Studied as before, out of the eleven periods of age, the correlation holds in four, and lacks one death of doing so in the fifth.

As regards sex alone, the correlation is quite perfect, the excess of deaths of females from Consumption being 8.61 per cent, and of males from Pneumonia 9.61 per cent. (Excess of males from all causes, 5.39 per cent.)

With sex in connection with age, it holds in three cases. In three cases, also, there was an excess of deaths of one sex from one disease, and of the opposite sex from the other disease; and in one period an excess from one disease, and an equal number of each sex from the other.

Exhibit F shows relations to each disease of conditions of seasons, and of sex at different seasons. With season alone, the correlation holds in just one-half the months. The same is true of sex in connection with season.

There is another way in which this subject may be studied, and that is by taking the average proportion of the deaths of the sexes from all causes—5.39 per cent more males than females—and finding out in how many cases the proportion is greater or less from Consumption, and the reverse from Pneumonia. Doing so with sex by periods of age, we find the excess in opposite directions in four cases out of eleven; with sex by months, in seven cases out of twelve.

To sum up, Consumption and Pneumonia were, in a majority of cases, distributed throughout the counties in an opposite manner. This correlation holds as regards sex and season, but does not fully hold with age as at present, in this Report, divided by periods, although there was demonstrated to be a great difference, falling a little short of opposition.

As the last of the report now goes to press, there does not remain time to continue the study of Tables XVIII and XIX, or to notice Table XX, but it is hoped that they will prove valuable by contributing somewhat to the general stock of knowledge, especially concerning the one great cause of death, Consumption.

TABLE XX—CONSUMPTION.

Showing, by Months, the Occupation, Age, Sex, and Conjugal Condition of all who Died from Consumption during the year 1869.

[illegible]

769	Occupations Unknown.....	T	109	14	29	68	93	100	63	55	93	40	44	21	32	20	24	7	5	12
"	"	M	...	...	7	42	70	48	40	29	81	33	13	18	14	13	2	1	2	...
"	"	S	109	14	27	54	37	19	7	6	1	5	1	2	4	...	1	2	1	2
"	"	W	...	...	1	...	4	2	3	5	1	1	4	4	7	5	8	2	3	...
"	"	U	...	...	1	7	10	9	5	4	2	3	6	2	3	1	2	1	...	8
FEMALES:																				
565	Occupations Unknown.....	T	53	2	25	54	74	86	45	47	25	32	32	17	24	17	19	5	2	6
"	"	M	...	...	7	41	64	38	33	23	27	10	16	12	11	2	...	1	...	...
"	"	S	...	...	88	224	41	21	14	3	3	1	1	1	8	...	1	1	1	...
"	"	W	...	...	1	...	4	2	3	5	1	1	4	5	5	6	2	1	...	...
"	"	U	...	...	...	6	8	6	1	1	...	2	...	2	...	1	...	...	5	...
MALES:																				
204	Occupations Unknown.....	T	56	12	4	14	19	14	18	8	8	8	12	4	8	5	2	3	6	...
"	"	M	...	...	...	...	1	6	10	2	6	3	6	2	2	2	2	...	1	1
"	"	S	...	...	56	12	3	13	16	5	4	3	...	4	1	1	...	1	...	...
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	2	...
"	"	U	...	...	...	...	1	1	2	3	4	3	2	1	6	...	3	1	1	...
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20	9	4	8	...
"	"	M	...	...	...	...	2	18	32	37	38	35	24	23	27	25	21	17	4	2
"	"	S	...	...	...	...	1	1	3	25	48	16	8	10	2	...	2	...	...	1
"	"	W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"	"	U	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
All specified Occupations..																				
468	All specified Occupations..	T	1	1	8	28	69	51	45	50	44	35	23	23	25	20</				

TABLE XX--CONSUMPTION.

Showing, by Months, the Occupation, Age, Sex, and Conjugal Condition of all who Died from Consumption during the year 1869.

January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Married.	Single.	Widowed.	Total.	Occupation, Sex, and Conjugal Condition.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.				
37	40	46	112	122	110	96	105	181	111	96	185	2	...	...	...	...	Total number of Deaths...	T 110	15	82	96	162	151	105	105	77	65	67	50	60	45	42	19	9	40		
29	35	56	65	65	64	49	54	70	62	47	78	674	...	...	...	...	"	"	"	"	9	60	102	55	75	64	55	56	40	43	85	80	6	8	8		
26	34	63	80	44	84	56	89	48	88	23	41	...	406	"	"	"	"	8	110	15	80	79	85	15	16	8	5	1	4	4	...	1	2	2	1	
3	2	8	6	11	6	4	7	9	5	8	8	...	...	72	...	...	"	"	"	"	W	...	...	...	...	7	4	2	4	4	10	9	8	9	4	...	
2	6	4	11	2	6	7	5	9	6	8	8	2	...	...	78	...	"	"	"	"	U	...	...	...	...	5	4	6	8	6	2	8	1	8	1	...	11
34	31	62	58	65	59	52	59	73	63	52	65	1	...	...	...	...	Total number of Females...	T 54	2	26	62	96	104	54	63	87	86	83	20	27	20	21	5	2	7		
18	18	60	40	36	83	25	81	49	37	81	44	392	...	...	...	...	"	"	"	"	9	50	79	46	53	32	82	23	13	19	14	18	2	...	2		
18	11	17	12	22	19	22	26	15	17	18	14	...	197	...	...	...	"	"	"	"	8	54	2	25	47	34	16	4	4	2	1	1	3	...	1	1	...
2	1	1	4	7	5	2	5	8	4	4	8	...	...	46	...	...	"	"	"	"	W	...	...	...	...	5	2	1	4	5	6	2	1	...	...	1	...
2	1	4	2	...	2	8	...	6	5	4	4	1	...	...	34	...	"	"	"	"	U	...	...	...	...	1	1	2	...	2	...	...	...	...	...	5	...
23	63	44	54	57	51	44	46	53	48	34	70	1	...	...	...	...	Total number of Males...	T 56	18	6	84	66	47	54	42	40	29	34	80	63	25	21	18	7	18		
11	17	26	25	29	31	34	23	21	25	16	34	332	...	...	...	...	"	"	"	"	10	23	39	25	32	23	23	27	24	21	17	4	8	6	...	...	
11	18	16	18	22	15	14	16	25	21	10	27	...	211	...	...	...	"	"	"	"	8	56	13	5	32	51	19	11	12	1	4	...	8	1	...	1	1
1	1	2	2	4	1	2	2	1	1	4	5	...	...	28	...	...	"	"	"	"	W	...	...	...	...	2	2	1	...	...	...	5	8	2	7	3	...
...	9	2	4	4	5	3	1	4	4	1	44	...	"	"	"	"	U	3	5	4	8	5	1	6	...	8	1	2	1	...	6

THIRD REGISTRATION REPORT.

TABLE XX—CONTINUED.

[illegible]

[illegible]

*For Totals, etc., see corresponding Classes, on pages 186 and 187.

*CLASS V.																		
1	1	1	8	2	1	2	13		Laborers.....	M		2	3	1	3	2	1	1
2	2	1	1	2	1	1	10		"	S		3	2	8	1	1		
1					1	1	2		"	W					1	1		1
2	1	1	1	1	1	1	4	29	"	U		1	1	1	1	1		1
1					1	1	2		2 Minors.....	M				1	1	1		1
*CLASS VI.																		
			1				1		1 Deputy Sheriff.....	M				1				
1			1				2		Engineer.....	M				1		1		1
		1						1	"	U					1			
1							1		1 Fisher and hunter.....	S					1			
			1				1		1 Mine Captain.....	M						1		1
		1					1		Musician	S		1						
						1	1	2	"	U		1						
1						1	2		2 Teamster.....	M							2	
1						1	2		2 Veterinary Surgeon.....	M					1	1		
*CLASS VII.																		
							1		1 Fisherman.....	S		1						
1						1	2		Sailors.....	M			1				1	
1						2		8	"	S					1	2		
*CLASS VIII.																		
			1				2		2 Soldiers.....	S				1				

* For Totals, etc., see corresponding Classes. on pages 187 and 188.

TABLE XX—CONTINUED.

January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Total.	Occupation, Sex, and Conjugal Condition.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
1	1	2	1	1	1	1	1	1	1	1	1	1	2	† Class XI—(continued).						1	1							1				
													2	Laborer.....																		
1	1												1	Merchant's Wives.....									1									
							1						1	Miller.....					1													
									1				1	Physician's Wives.....								1										
		1											1	Seamstresses.....																		
									1				1	Servants.....					1													
								1	1				1	Stage Drivers' Wives.....					1													
							1						1	Teachers.....					1													
1	2	1	1	1	1	1	3	3	1	2	2	1	16	".....			5	8	1			1										
														S.....																		

† For Totals, etc., see "Females (Class XI)—Specified Occupations," on page 186.

AN ACT

To Provide for the Registration of Births, Marriages, and Deaths, being Act No. 194, Session Laws of 1867, approved March 27, as amended by Act No. 125, Session Laws of 1869, approved April 3.

SECTION 1. *The People of the State of Michigan enact*, That sections one, three, and four of an act entitled "An act to provide for the registration of births, marriages, and deaths," approved March twenty-seventh, eighteen hundred and sixty-seven, be and the same are hereby amended so as to read as follows:

SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of

June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided*, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city, as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

SEC. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him; and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage

took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the Christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no Christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such Christian name shall be distinctly designated in such report as the Christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such Christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose Christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the Christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage,

and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the Christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages, and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State,

and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

SEC. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor, a certified statement, without fee, containing the name of the disease, or cause (if

known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained,) from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, work-houses, alms-houses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer,) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts,) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of

a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them, or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the People of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessor of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and, upon conviction, punished as therein provided for.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 2. That there shall be added to said act a new section, to stand as section eleven, to read as follows:

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-

eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding section. And such county clerks as have made returns of the births, marriages, and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

SEC. 3. This act shall take immediate effect.

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